Oil, Paint and Drug Reporter

THE CHEMICAL MARKET AUTHORITY

October 1, 1956

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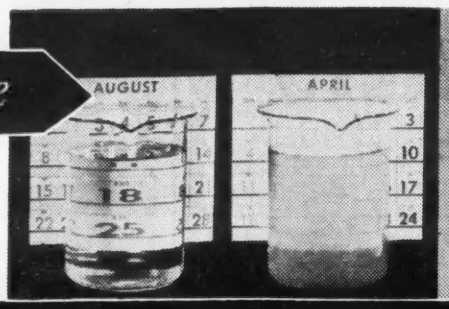
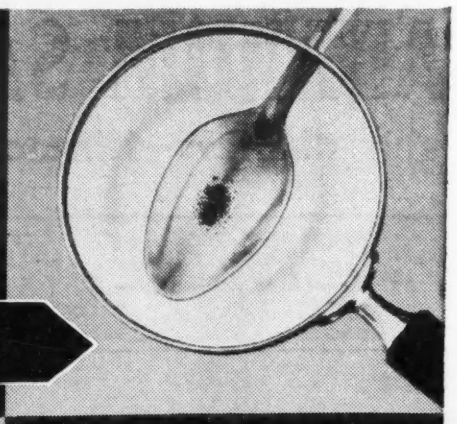
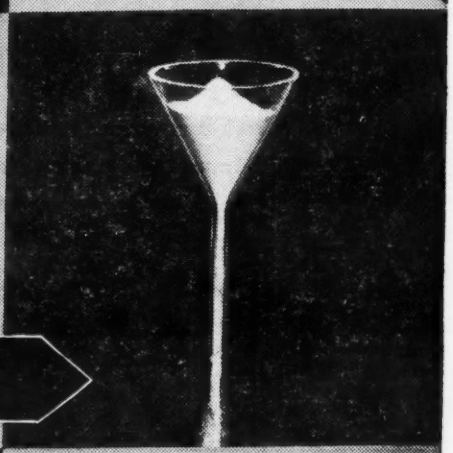


low iron content



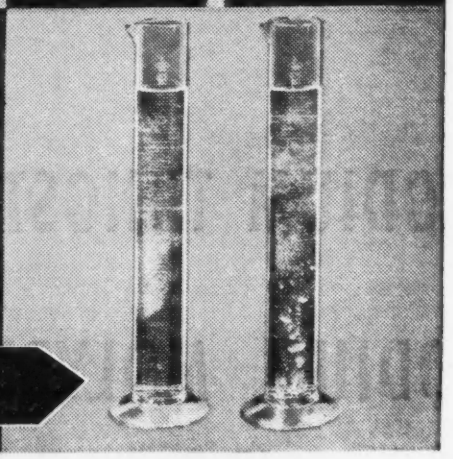
low insoluble residue

flows more freely



less tendency to dust

dissolves quickly



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Oil, Paint and Drug Reporter

Vol. 170 No. 14 30 Church St., New York 7, N. Y. October 1, 1956

P.A.'s Bullish on Outlook

The optimism of the August report is strongly reinforced by the September report. Looking toward the fourth quarter of this year, purchasing executives are definitely bullish. Two-thirds of those who reported believe that business will be better than the third quarter of 1956 and only 7 percent believe it will be worse.

Furthermore, 55 percent believe it will be better than the very good fourth quarter of 1955, with 18 percent predicting it to be less good. Conservatism, rather than concern, best characterizes the opinions of those who see no change or a decline in general business conditions.

This rosy outlook no doubt stems from the fact that their companies continue large bookings of new orders and are stepping up production to fill these orders. Thirty-eight percent report higher production this month (as compared to 25 percent last month) and only 9 percent have cut back production, compared to 24 percent last month.

While a few specific cases of real price competition are reported, the overall price movement is decidedly upward. Some purchasing executives have re-emphasized the belief that it is their responsibility to hold prices in line and that all management should strive to offset higher costs by production economies.

Employment continues very high and inventories are reported as being in balance except for items in extremely short supply, such as nickel.

Buying policies remain substantially unchanged, with the minor movements tending toward slightly longer lead times.

The upward price spiral continues unabated. Eighty-four percent of the reporting purchasing executives say they are paying more for the items they buy and only 3 percent report lower prices. This small group that is paying less, in general, represents quantity buyers of specific items, such as oak flooring.

Business managements apparently believe that now is the time to pass increased costs on to the buyer, rather than to rely on being able to effect cost reductions to offset higher labor and material prices.

There is a general feeling that inventories are stabilizing at a realistic level. While some purchasing

—Continued on page 40

This report was prepared by the business survey committee of the National Association of Purchasing Agents.

Trade Agreements Law Hit For Faulty Handling by Hooker Before Boggs Subcommittee

Administration of the trade agreements law and associated statutes, such as the antidumping act and the tariff act of 1930, was assailed last week by R. Wolcott Hooker, vice-president of Hooker Electrochemical Company, Niagara Falls, N. Y., in testimony before the Boggs subcommittee of the house, ways and means committee. Mr. Hooker, who is also president of the Synthetic Organic Chemicals Manufacturers Association but emphasized that his statement represented his own views and not necessarily those of his company or the industry, cited a number of shortcomings in the procedures followed by the administrative agencies which should be remedied by congress.

BECOMES VICE-PRESIDENT: H. A. Bonyun, jr., general sales manager of the chemical division of Publicker Industries, Inc., Philadelphia, who has been elected vice-president of Publicker Alcohol & Chemical Sales Corporation.

Administration of Laws Seen Slanted

The burden of his statement was that administration of the laws is either slanted in favor of the foreign suppliers or fails to take proper account of the interests of the American producers.

"The people who own, staff, manage or support domestic productive enterprises with their labor or their capital have a right to an even-handed administration of these laws," he declared. "They have not received it. I trust their legitimate aspirations for corrective action will be realized as a result of the important inquiry to which you have set your hand."

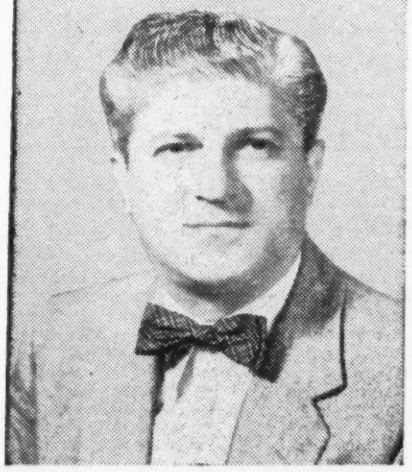
The Boggs subcommittee was set up during the closing days of last session to make an extensive study of the tariffs and customs laws, policies and manner of administration. Two weeks of hearings in the initial phases of the study were completed last week and a recess taken until a date to be announced when they will resume.

Mr. Hooker noted at the outset of his statement that for the past twenty-two years tariff-making and the regulation of foreign commerce has been conducted not by congress but essentially by the State department under the trade agreements program. During this period 90 percent of the dutiable imports into the US have been reduced in duty at least once and the average tariff has been lowered from

—Continued on page 41

Butadiene Plant at Louisville, Ky., Put Up for Leasing by Government

The government's alcohol butadiene plant at Louisville, Ky., was put up for lease last week by the Federal Facilities Corporation, which announced that it would accept offers for the plant until October 31. The plant is currently under lease to Publicker Industries, Inc., Philadelphia, and any lease made will have to be subject to the Publicker lease which terminates April 4, 1958.



HEADS FMC ORGANICS UNIT: Henry S. Winnicki, former director of engineering and development for FMC chemicals, who has become president and manager of Food Machinery & Chemical Corporation's newly-formed organic chemicals division, with headquarters in New York.

The announcement by FFC contained no restrictions on the use that might be made of the plant, but stated simply that the plant would be leased for a period of five to fifteen years, under public law 433 of the last congress, which was a simple extension of a 1953 law for disposing of the rubber producing facilities of the government.

Plant Subject of Controversy

It will be recalled that this plant was the subject of a controversy several months ago over its proposed disposal to Union Carbide & Carbon Corporation, New York. A contract for sale of the plant to Union Carbide for $3,125,000 was vetoed by congress.

Sale of the plant to Union Carbide had been opposed by the Attorney General because the sale "would not best foster the development of a free competitive synthetic rubber industry." The Attorney General had no objection to the sale from the standpoint of the antitrust laws, however.

In offering the plant only for lease, and not for sale, the Attorney General's in-

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Hercules Powder Plans To Enter the Food Field

In a move aimed at taking it into the food products field for the first time, Hercules Powder Company, Wilmington, Del., plans to acquire Huron Milling Company, Harbor Beach, Mich.

The deal, already approved by the boards of the two companies, needs the sanction of Huron stockholders. Under the agreement, Huron stockholders will receive one share of Hercules common stock for three shares of Huron stock. About 100,000 shares of Hercules common are involved.

Huron Milling, with net sales last year of around $12 million, processes wheat flour into proteins for food supplements, natural food flavorings and wheat starch.

One of Huron's major activities is in separating proteins from wheat flour,

—Continued on page 63

Diamond to Expand In Chlorine-Caustic

To keep pace with the steadily growing consumption of chlorine and caustic soda by Gulf Coast chemical industries as well as to meet its own increasing captive requirements, Diamond Alkali Company, Cleveland, Ohio, has reported plans for a multi-million-dollar expansion program at the firm's Deer Park plant along the Houston Ship Channel near Houston, Tex.

In making the announcement, Frank Chrencik, general manager of the company's electro chemicals division, said the project is designed to "increase Diamond's present daily production capacity of electrolytic products at Deer Park by approximately 40 percent or 200 tons of chlorine, 220 tons of caustic soda, and 2 million cubic feet of hydrogen."

The additional facilities embraced by this latest expansion program at the company's Deer Park plant, it was said, are expected to be completed and put into operation during the first half of 1958.

Working in cooperation with Wyatt C.

—Continued on page 63

Sherwin-Williams Sets Up Associated Products Lab

Establishment of a Sherwin-Williams research group to develop non-paint products associated with the paint industry has been announced by the Cleveland, Ohio, company. The new development staff will be headed by Dr. Richard Hall and will headquarter in the company's technical service department in that city.

Dr. Hall headed the firm's analytical research department at Chicago prior to his present appointment. Succeeding Dr. Hall as head of the analytical research laboratory is Dr. Claude A. Lucchesi.

Methyl Bromide Unit Built

Kolker Chemical Corporation has installed new facilities for the production of methyl bromide at its plant in Newark, N. J. When put on stream, the new unit will allow Kolker to double its present methyl bromide capacity.

Gov't May Reduce Paperwork Demands

A sharp reduction in paperwork burdens and expenses imposed on the chemical industry by the government in its statistical reporting programs is in prospect. The Advisory Council on Federal Reports, an agency of the Bureau of the Budget, assigned to the task of "riding herd" on the demands of government departments for industry information, last week set up three committees in the chemical field to review existing statistical report forums and how they might be improved.

One is an overall committee of thirteen members headed by Dr. Lewis E. Lloyd of Dow Chemical Company, Midland, Mich., as chairman, and P. K. Lawrence of E. I. duPont de Nemours & Co., Wilmington, Del., as vice-chairman. The

—Continued on page 52

Chemical Workers Are Getting Top Fringe Benefits

Employees of the chemical industry do not have to look very far to discover where the best working conditions are to be found—as measured by the amount of fringe benefits paid by employers. With the single exception of the petroleum industry, workers engaged in producing chemicals and allied products are paid more in fringe benefits, both as to percentage-of-payroll and dollars-per-year, than in any other manufacturing line.

This is shown by a survey just completed by the Chamber of Commerce of the United States of 1,000 member firms, including fifty companies in the chemicals and allied field. The survey was based on 1955 conditions and provided statistical support for the fact that weekly wages and hourly rates are no longer accurate measures of either worker income or the labor costs of doing business.

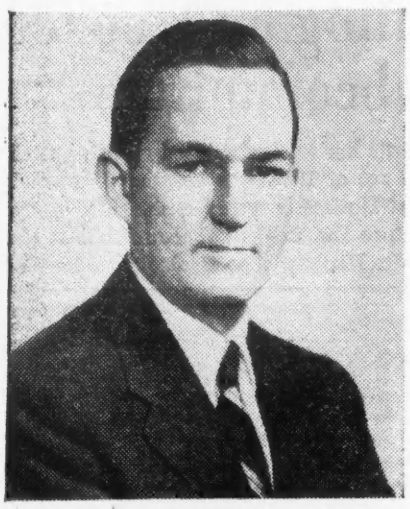
Fringe payments vary widely among the 1,000 reporting companies, ranging from less than 5 percent to over 50 percent of payroll. The average payment in 1955 was 20.3 percent of payroll, 39.2 cents per payroll hour, or $819 per year per employee. In a majority of industries fringe payments were higher than average for the largest companies, and lower than average for the smallest companies.

Against this general picture, the chemical and allied products industry stood out far ahead of most all others. The fifty reporting chemical companies made fringe payments amounting to 21.8 percent of their total payrolls, topped only by payments in the petroleum industry

—Continued on page 62

Copper Supply Goal Closed As Target Figure Is Exceeded

The copper supply expansion goal was closed out last week by the Office of Defense Mobilization after the Department of the Interior pointed out that the target figure of an annual supply of 2,270,000 tons of copper has now been exceeded. The goal was established in February, 1952, and called for this annual supply of the metal to be available to meet the demands of a mobilization period. The 2,270,000-ton figure was based on supplies available from domestic production, old scrap and imports.



JOINS GRACE P. R. UNIT: Richard L. Moore, former assistant treasurer and director of personnel and public relations of Foster D. Snell, Inc., who has joined the public relations division of W. R. Grace & Co., New York, where he will be responsible for public relations of two Grace divisions—Grace Chemical Company Division and the polymer chemicals division.

As a further indication of a better supply situation, the Bureau of Foreign Commerce announced that the fourth-quarter export quota for certain copper raw materials has been relaxed to permit slightly larger amounts to be shipped out of the country.

Quotas Established

A quota of 6,000 short tons has been established for new and old copper scrap; 21,400 short tons (metal weight) for new and old copper-base alloy scrap, except copper-nickel alloy scrap containing 5 percent or more nickel; and 1,000 short tons (metal weight) for copper-base alloy ingots and other crude forms. Export quotas for these materials in the third quarter were 4,000, 15,400, and 1,000 tons respectively.

Under the export licensing policy established for the fourth quarter, all refined copper is open-ended. Previously, refined copper produced from domestic-origin materials or from Canadian scrap generally was not approved for export.

Meanwhile, continued heavy demand for copper wire for power and communications systems and non-residential construction enabled copper wire mills to maintain a high rate of shipments during the second quarter of this year, according to the quarterly copper industry report of the Business and Defense Services Administration.

The improved supply of copper during the second quarter contributed to a reduction in unfilled orders for copper wire mill products. At the end of June such orders were about one-fifth under the total of unfilled orders at the end of March, but still were about one-tenth above the level for mid-year 1955.

Brass mill shipments in the second

—Continued on page 71

Titanium Facility Is Projected by USI

US Industrial Chemicals Company, New York, a division of National Distillers Products Corporation, will put into operation by the end of 1957 a 10 million-pound-per-year plant for the production of high-quality titanium sponge, according to John E. Bierwirth, president of National Distillers. This step will make USI the first company to enter the titanium field without government procurement guarantee, it was said.

The multi-million dollar titanium plant will be located in Ashtabula, Ohio, less

—Continued on page 52

FTC Gets New Chief

Edward T. Tate was appointed commissioner of the Federal Trade Commission last week by President Eisenhower to succeed Lowell B. Mason whose term expired last month. Mr. Tate is a former member of the Securities and Exchange Commission and served later as a special assistant at the White House.

Di-isocyante Quotation Slashed by National Aniline

National Aniline Division of Allied Chemical & Dye Corporation, New York, has announced a 50 percent price reduction on "Nacconate 300" (MDI di-isocyanate) from $3.50 per pound to $1.75 per pound.

A similar price reduction applies to "Nacconate 300" when furnished as a 50 percent solution in o-dichlorobenzene for which the price will now be $1.00 per pound.

Current price reductions on "Naccona'e 300" follow closely upon recent announcements by National Aniline of a price reduction to 95 cents per pound on "Nacconate 80" in truckload quantities. "Nacconate 80" is now being widely used in the manufacture of urethane foams.

The Week's Price Changes

Benzyl Salicylate, Bonemeal, Paprika, Tankage Advance. Citronellyl Acetate, Haitian Vetiver Oil Decline.

Prices Advanced

Benzyl salicylate, 10c. per lb. (p. 57).
Bone meal, $5 per unit-ton (p. 42).
Cassia, 1c. per lb. (p. 57).
Cocoa butter, ½c. per lb. (p. 64).
Cottonseed meal, $2 per ton (p. 64).
Lard, ⅛c. per lb. (p. 64).
Linseed meal, 50c. per ton (p. 64).
Oil, chenopodium, 30c. per lb. (p. 57).
Citronella, 10c. per lb. (p. 57).
Corn, ⅜c. per lb. (p. 64).
Cottonseed, ⅛c. per lb. (p. 64).
Geranium, Bourbon, 25c. per lb. (p. 57).
Peanut, 1½c. per lb. (p. 64).
Soybean, ⅜c. per lb. (p. 64).
Paprika, Yugoslavian, 3c. per lb. (p. 57).
Soybean meal, $2.50 per ton (p. 64).
Stannic oxide, 1½c. per lb. (p. 38).
Tankage, Chicago, 50c. per unit-ton (p. 42).
ew York, 25c. per unit-ton.
Valonia extract, ½c. per lb. (p. 45).

Prices Reduced

Citronellol, 20c. per lb. (p. 57).
Citronellyl acetate, 20c. per lb. (p. 57).
Greases, ½c. per lb. (p. 64).
Oil, coconut, crude, ½c. per lb. (p. 64).
Lemon, 25c. per lb. (p. 57).
Olive, 20c. per gal. (p. 64).
Vetiver, Haitian, 35c. per lb. (p. 57).
Tallow, ½c. per lb. (p. 64).
Tin metal, salts, 0.4c. to ¾c. per lb. (p. 38).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100—1949 average)

Sept. 28, 1956	Sept. 21, 1956	Sept. 30, 1955
108.99	108.75	107.09

Carbon Calcining Firm Started

Pittsburgh Consolidation Coal Company, Pittsburgh, Pa., and Standard Oil Company of Ohio, Cleveland, have formed a jointly-owned company known as Mountaineer Carbon Company to operate a carbon calcining plant with a yearly output capacity of 165,000 tons at Cresap, W. Va., eight miles south of Moundsville. Directors of the new firm have elected Joseph Pursglove, jr., president; R. C. secretary; and James F. Bisset, treasurer. For the present, sales offices are in the Midland Building, Cleveland, and construction offices in the Koppers Building, Pittsburgh.

Mountaineer Carbon Company will produce and market high grade calcined carbon to be used principally as electrode carbon material in the aluminum, electrometallurgical, and chemical industries. Part of the raw material for the new plant will be petroleum coke which Sohio will ship to the calcining plant, and part will be coke supplied by Pitt-Consol. The

—Continued on page 56

Petroleum Antioxidants Set For a Price Rise by duPont

The petroleum chemicals division of E. I. duPont de Nemours & Co., Wilmington, Del., will increase the price on four petroleum antioxidants, effective November 1.

The drum price of duPont antioxidant "No. 29," an alkyl phenol, will go up from 95c. to $1.04 per pound, freight allowed to destination. Prices, f.o.b. Carney's Point, N. J., will be raised from 56c. to 61c. per pound for duPont phenyl-alpha-naphthylamine; from 75c. to 82c. per pound for "Ortholeum" 300 grease stabilizer, and from 54c. to 57c. per pound for phenyl, beta-naphthylamine.

Prices from warehousing points will be increased by like amounts.

Airco Elects Lyall

David H. Lyall has been elected treasurer of Air Reduction Company, New York, succeeding Howard H. Foster, who has resigned. Mr. Lyall, with the company for twenty-one years, became general auditor in 1944 and has been assistant controller since 1949.

DRAGOCO US SALES MANAGER: Edward A. Bush, named sales manager of its United States division with headquarters in New York by Dragoco, Inc., West German producer of aromatic chemicals.

India Hopes to Achieve Broad Chemical Industry

India hopes to have a broadly-based chemical industry in fifteen years, according to a young chemical engineer from Bombay who has recently been studying polystyrene production at Dow Chemical Company, Midland, Mich.

"We are starting from the finished product now and working towards the raw

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CELANESE DIRECTOR: Richard W. KixMiller, vice-president in charge of its chemical division, elected to the additional post of director by Celanese Corporation of America, New York, succeeding Charles F. Beran, who has retired.

Nylon Plant in Va. Projected by duPont

A new nylon plant designed to produce 40 million pounds of fiber annually to meet the growing demand for its use in tire cord and other industrial products will be built by E. I. duPont de Nemours & Co., in Richmond, Va.

The multi-million dollar project will be erected on the site with the company's rayon plant and will be in addition to the large existing plant for production of rayon yarns there.

The company said:—

"The decision to build our fourth nylon plant reflects our confidence that nylon markets will continue to expand. We anticipate the most immediate growth will be in industrial yarns. The Richmond facility therefore has been designed to make heavy yarns for that market."

"The Richmond site was deliberately chosen in an effort to do everything possible to stabilize employment in the face of a lessened demand for rayon. It is a departure from the traditional practice of having only a single fiber produced at any one of our eight fiber-producing locations."

DuPont also manufactures cellophane at Richmond but this will mark the first time that two different textile fibers have been made at the same location.

Work is expected to begin sometime late this year and plant startup is planned for the latter part of 1957. Approximately 800 construction workers will be required at the peak of activity. The rayon plant at present employs 2,200 people.

Heavy denier, high tenacity nylon yarn, the type to be manufactured in Richmond, is also made by duPont at its Seaford, Del., and Chattanooga, Tenn., plants. Those plants also make textile nylon which is the exclusive product at Martinsville, Va. Nylon staple is made at Seaford.

Devoe Grants Reichhold License for Epoxy Resins

Devoe & Raynolds Company, Louisville, Ky., has granted to Reichhold Chemicals, Inc., White Plains, N. Y., an epoxy resin patent license for the United States and Canada.

Reichhold, now entering the epoxy resin field through the non-exclusive license granted by Devoe, claims to be of the world's largest producers of synthetic resins. Devoe, a division of the chemical paint and metallurgical department of Merritt-Chapman & Scott Corporation, is one of the nation's leading manufacturers of consumer paints, industrial finishes, resins and chemicals, and has been a pioneer in development of the new and widely-used group of epoxy plastics.

Cosden Buys Refinery In Texas from Onyx

Cosden Petroleum Corporation has bought Onyx Refining Company's refinery properties at Abilene, Tex., for an indicated $880,000. Cosden will take over the refinery today.

The purchase cost Cosden 40,000 shares of common stock. The Onyx plant has a capacity of about 7,000 barrels per day. Onyx will continue in operation as a pipe line company.

USI Is Prepared to Celebrate A Half Century of Producing Industrial Alcohol, Chemicals

U.S. Industrial Chemicals Company, an organization whose history closely parallels industrial chemical growth in the United States, will celebrate its fiftieth anniversary as a producer of industrial alcohol and chemicals on October 17. This division of National Distillers Products Corporation today manufactures a wide range of products but in 1906, when it was founded, it planned only for production of alcohol to serve industrial users under the tax free and denatured alcohol act of June 7 of that year.

At present the products of USI include:— Polyethylene resins, metallic sodium, alcohols, esters, ethers, ketones, agricultural chemicals, animal feed products, intermediates and fine chemicals. Scheduled for the near future are zirconium, titanium, phosphoric acid and isosebacic acid.

Incorporated Other Companies

The U.S. Industrial Alcohol Company, as it was then known, was an incorporation of these companies and plants:—Columbus Distilling Company with a plant in Brooklyn, N. Y.; Louisiana Distilling Company, with a plant in New Orleans, La.; International Distilling Company, with a plant in New Orleans, and Atlas Distillery, with a plant in Peoria, Ill.

Added later in 1906 was the Wood Products Company, Buffalo, N.Y., manufacturers of wood alcohol, acetone and a commercial mixture known as methyl acetone. This plant provided denaturing materials for the ethyl alcohol produced at the other plants.

"Pyro," the company's first trade-marked product, was put on the market in 1907 as a liquid fuel for alcohol lamps, but was superseded by the cheaper kerosene then coming into prominence for lighting. Displaced as a fuel, "Pyro" later became the largest selling antifreeze for automobile engines.

By 1916, through building and acquisition, USI had become the leading producer of industrial alcohol in the country. In that year, construction was completed on the Curtis Bay, Baltimore, Md., plant for distilling alcohol from molasses. This was the biggest, most modern alcohol plant of its time, and doubled USI capacity in a single year.

A nationwide sales organization already existed, based upon the acquisition in 1915

—Continued on page 35

SOLVENT SALES MANAGER: Charles E. Grant, named to the newly-created post of manager of solvent sales for Columbia-Southern Chemical Corporation, Pittsburgh, Pa., in charge of trichloroethylene, perchloroethylene, monochlorobenzene, orthodichlorobenzene and paradichlorobenzene.

GAF Stock Split Is Blocked by Court

Interhandel, Swiss investment corporation, and two groups of Interhandel stockholders have obtained an injunction preventing the Alien Property Office from going ahead with an announced plan to split stock and issue new stock in General Aniline & Film Corporation, New York.

Interhandel's 90 percent stock interest in General Aniline has been held by the Alien Property Office since 1942, and the Swiss company's eight-year lawsuit for recovery of the property is still before the courts.

Some 1,500 Interhandel stockholders, known as the Attenhofer and Kaufman groups, have become parties to the suit as intervenors.

Judge David A. Pine of the United States District Court in Washington granted a temporary restraining order on the showing made by Interhandel and the stockholder groups that the proposed stock transactions would reduce Interhandel's share of stock ownership con-

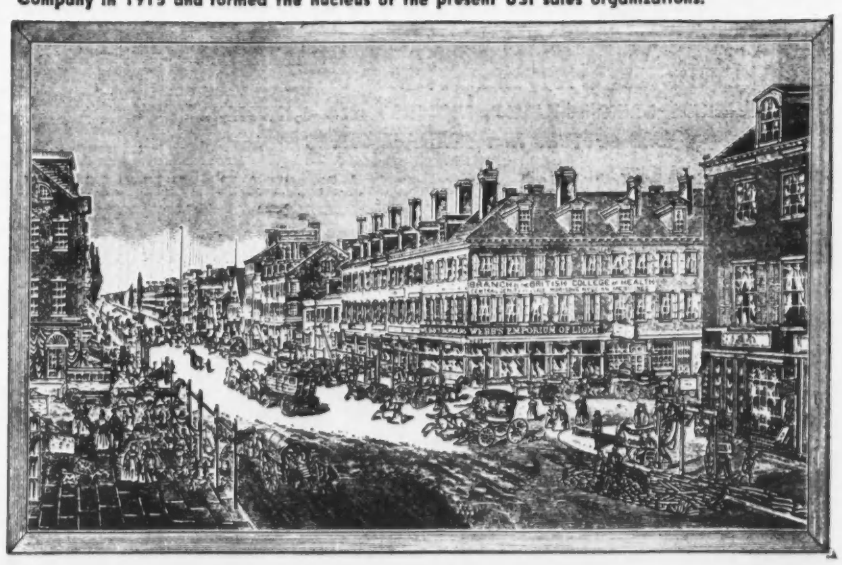
—Continued on page 52

McNeil Labs Acquires VanZant & Co., Canada

Henry S. McNeil, president of McNeil Laboratories, Inc., Philadelphia, has announced his company's acquisition of VanZant & Co., Ltd., Toronto, Canada.

The Canadian firm will continue to operate under its own name, Mr. McNeil said. The fine detail organization of VanZant, covering the entire dominion, will be increased. Canadian distribution will be coordinated with that of McNeil, supervised by Clark H. Johnson, director of distribution. VanZant has been closely associated with McNeil for the past several years, as the American firm's exclusive distributor.

USI TRACES ITS LINEAGE: "Webb's Emporium of Light" on the corner of Broadway at Canal street, New York, specialized in alcohol lighting fuels, and later became a leading distributor of alcohol for industrial and scientific use. The firm was acquired by U. S. Industrial Chemicals Company in 1915 and formed the nucleus of the present USI sales organizations.



Surfactant Use Pattern Shifting, Survey Shows

A marked change is taking place in the end-use pattern for surface active agents, according to a new distribution survey made by Carl Pacifico and M. E. Ionescu of American Alcolac Corporation, Baltimore, Md. Among other things, it shows a substantial percentile shrinkage in the household share of total output.

The American Alcolac study, presented to the American Oil Chemists Society meeting in Chicago last week, estimated that some 548 million pounds of surfactants found their way into household cleaning uses last year.

While still a whopping 51.5-percent slice, it is pointed out that this falls far short of the 75-80 percent generally credited to household applications.

Breakdown of End-Uses

In all, Messrs. Pacifico and Ionescu are able to identify end-uses for some 1,059,000,000 pounds of last year's surfactant production. This total, which includes household uses, is made up of the following other applications:

	Million Pounds	Percent
Petroleum	182	17
Concrete	75	7
Formulated cleaners	46	4
Textiles	30	3
Food	25	2
Other aqueous cleaning	25	2
Metal cutting	21	2
Chemical intermediate	20	2
Cosmetics	18	2
Agriculture	16.5	1.5
Dry cleaning	10	1
Other	42.5	4

The American Alcolac survey calls attention to the fact that it has been able to label only 92 percent of 1955 surfactant output as reported by the Tariff Commission.

The unidentified 8 percent is accounted for in a number of ways. Some of this is material sold to the federal and

—Continued on page 70

Asphalt Refining Unit To Be Built by Amoco

The American Oil Company plans to build a crude and vacuum distillation unit for processing 25,000 barrels of oil a day for the production of asphalt at its Yorktown, Va., refinery now nearing completion, president Donald J. Smith has announced.

The company has started engineering and design work for the construction of this new asphalt processing unit, Mr. Smith said. Recently it said that the first gasoline ever produced in Virginia would be manufactured in early November at the originally announced 35,000 barrel-a-day refinery at Yorktown. Full operation of the gasoline refinery is scheduled for early 1957.

President Smith said that the company's decision to add the 25,000 barrel-a-day asphalt capacity at Yorktown is part of the firm's long-range program to expand facilities to meet the needs for road building materials created by the thir een-year federal highway building program.

The company produces asphalt at its Texas City, Tex., refinery and at two smaller refineries at Savannah, Ga., and Baltimore, Md. In addition, it will obtain additional asphalt facilities when it takes over the Destrehan, La., refinery on a completion of a merger with Pan-Am Southern Corporation later this fall.

Stauffer, West End Merger Approved by Stockholders

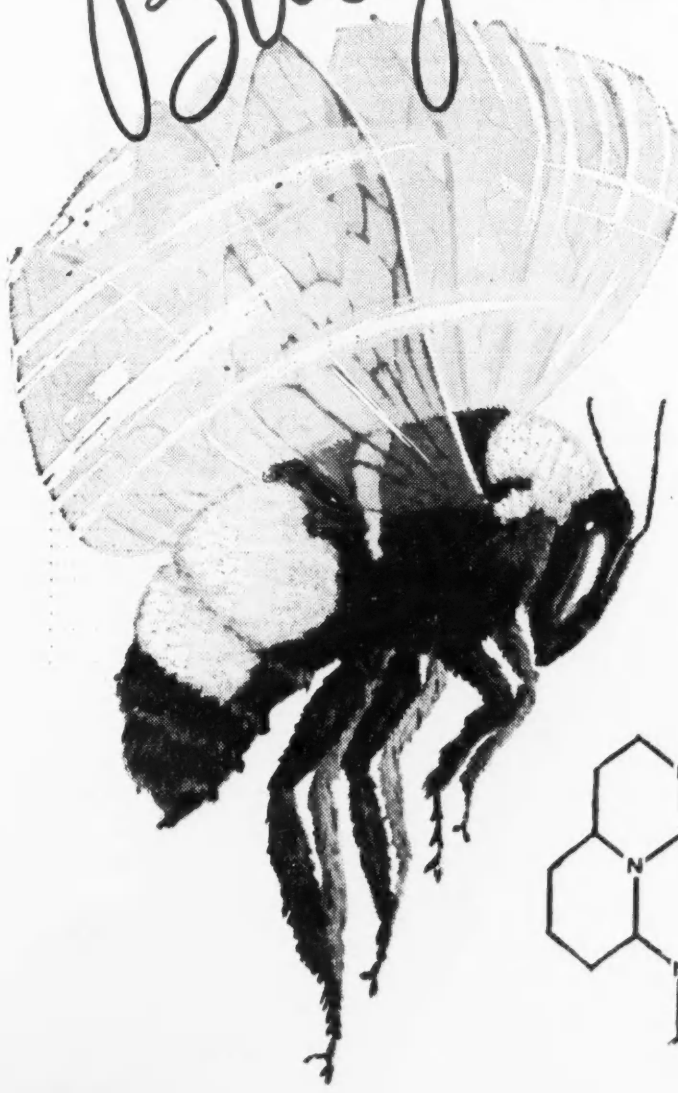
The merger of West End Chemical Company into Stauffer Chemical Company has been approved by the stockholders of both companies at special meetings.

Of the 3,076,705 shares of Stauffer common stock outstanding, 2,737,587 shares or 89 percent were voted in favor of the merger and 1,904 shares or 0.06 percent were voted against.

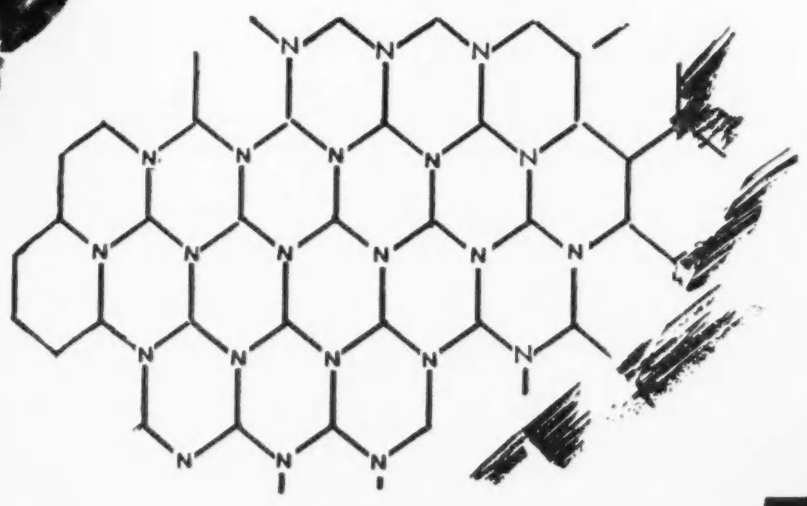
Of the 2,012,197 shares of West End common stock outstanding, 1,709,751 shares or 85 percent were voted in favor of the merger and 8,746 shares or 0.4 percent were voted against.

Of the 1,609,341 shares of West End participating preferred stock outstanding, 1,314,915 shares or 82 percent were voted in favor of the merger and 8,914 shares, or 0.5 percent were voted against.

Busy as a BEE...



developing
new
synthetic
organics



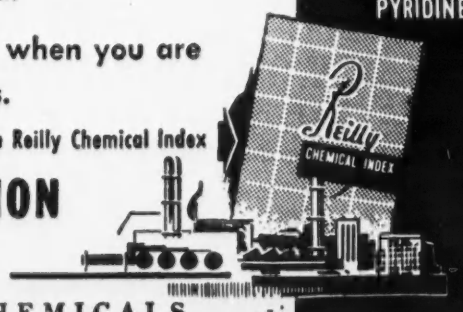
The Reilly Research & Development Laboratories have been busy for many years . . . patiently exploring new avenues, particularly relating to coal tar chemicals and heterochemicals.

The fruits of these efforts are to be found in almost every drug store, supermarket and department store in the land.

Take advantage of Reilly's experience and facilities when you are busy on projects involving pyridine or its compounds.

PYRIDINE

2,6-DIAMINO-PYRIDINE



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METHYL ISONICOTINATE

2-AMINOPYRIDINE

2,4,6-COLLIDINE

4-PICOLINE

ISONICOTINIC ACID

Association Meetings

Society of Chemical Industry, American section, luncheon meeting, Biltmore hotel, New York, October 3.

Society of Cosmetic Chemists, annual scientific forum, Barbizon Plaza hotel, New York, October 4-5.

Technical Association of the Pulp and Paper Industry, national plastics-paper conference, Institute of Paper Chemistry, Appleton, Wis., Oct. 3-4.

Air Pollution Control Association, semi-annual meeting, Rice hotel, Houston, Tex., December 3-5.

American Coke and Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 22-23.

American Pharmaceutical Manufacturers' Association, winter meeting, Waldorf-Astoria hotel, New York, December 10-12.

American Petroleum Institute, annual meeting, Conrad Hilton hotel and Palmer House, Chicago, November 12-15.

Antibiotics Annual Symposium, Willard hotel, Washington, D. C., October 17-19.

Armed Forces Chemical Association, annual dinner meeting, Delmonico hotel, New York, November 15.

Association of American Feed Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 17-18.

Association of American Fertilizer Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 19.

Association of American Pesticide Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 20.

Association of Consulting Chemists and Chemical Engineers, annual meeting and symposium, Belmont Plaza hotel, New York, October 23.

Association of Official Agricultural Chemists, annual meeting, Shoreham hotel, Washington, D. C., October 15-17.

Chemical Specialties Manufacturers Association, annual meeting, Mayflower hotel, Washington, D. C., December 3-5.

Combined Pharmaceutical Contact Committee of American Drug Manufacturers Association and American Pharmaceutical Manufacturers Association, fall meeting, Washington hotel, Washington, D. C., October 23-24.

Commercial Chemical Development Association, Terrace Plaza hotel, Cincinnati, Ohio, November 1.

Federation of Paint and Varnish Production Clubs, annual meeting and paint industries' show, Netherlands Hilton hotel, Cincinnati, Ohio, October 21-24.

National Chemical Exposition, Public Auditorium, Cleveland, Ohio, November 27-30.

National Foreign Trade Council, annual convention, Waldorf - Astoria, New York, November 26-28.

National Paint, Varnish and Lacquer Association, annual convention, Statler, Ambassador and Biltmore hotels, Los Angeles, November 12-14.

National Pest Control Association, annual convention, Detroit, Mich., October 22-25.

Naval Stores Work Conference, Roosevelt hotel, Jacksonville, Fla., October 8-9.

Parenteral Drug Association, annual meeting, Barbizon Plaza hotel, New York, October 31-November 2.

Proprietary Association, scientific section, winter meeting, Waldorf-Astoria hotel, New York, December 11.

Salesmen's Association of the American Chemical Industry, sales clinic, Commodore hotel, New York, October 15.

Society of Rheology, annual meeting, Mellon Institute and Webster Hall hotel, Pittsburgh, Pa., November 7-9.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon, Roosevelt hotel, New York, October 9; annual meeting and dinner, Biltmore hotel, New York, December 3

Chemicals Promised to Kill Grassy Weeds but Spare Crops

Weed killers to help the farmer control grassy weeds in fields of broad-leaved crops may be available in the near future. Dr. P. C. Hamm, project leader in charge of the herbicide screening program at Monsanto Chemical Company, St. Louis, Mo., told the recent meeting of the American Chemical Society in Atlantic City, N. J., that two different classes of chemicals have shown selectivity in destroying the seeds of narrow-leaved plants while sparing such plant varieties as radishes, beans, and peas.

These agents may even prove useful in controlling weeds in some grass-like crops, he said, for the chemicals have displayed high tolerance for corn, which belongs to the grass family. There has long been a need in agriculture for a supplement to the well-known 2,4-D, which attacks broad-leaved plants, but not grass.

The new chemicals should prove useful as tools for biochemists studying cellular chemistry, observed Dr. Hamm, who is a plant physiologist. He added:

"More immediately, these chemicals should furnish practical means of controlling annual grasses in a variety of crops."

There are materials which will kill plant seeds indiscriminately, the speaker

—Continued on page 53

Nuclear Reactor Concern Formed by 10 Companies

Ten of America's large corporations have formed a new company, Industrial Reactor Laboratories, Inc., to build and operate a privately owned nuclear reactor for industrial research in atomic energy, at Plainsboro, N. J.

The companies participating are Atlas Power Company; AMF Atomics, Inc., (subsidiary of American Machine & Foundry Company; American Tobacco Co., Continental Can Company, Corning Glass Works, National Distillers Products Corporation, National Lead Company, Radio Corporation of America, Socony Mobil Oil Company and United States Rubber Company.

Fluorspar Buying Limits Are Set Up

Purchases of acid grade fluorspar by General Services Administration for the national stockpile under the minerals purchase program approved by congress last session will be limited to acid grade fluorspar produced from ores mined in the United States subsequent to July 19, 1956, it was announced last week.

Congress authorized the purchase of 250,000 short tons of the material along with purchases of domestic tungsten, asbestos, and columbium-tantalum as a means of providing relief to domestic producers during the readjustment of production, largely related to defense programs, to normal competitive market conditions.

Any person or firm desiring to participate in the program for the purchase of acid grade fluorspar, must make a request

—Continued on page 62

Floor Wax 1955 Production For Commercial, Industrial Use Hit 10-Million Gallon Mark

At least 10 million gallons of liquid waxes and 3 million pounds of paste waxes were turned out by US manufacturers in 1955 to brighten the floors of commercial, industrial, and public buildings, the Chemical Specialties Manufacturers Association reports. The figures, which do not include production of waxes for household use, were obtained in a nationwide survey conducted at the manufacturer level by the association's wax and floor finishes division.

Actual production of such items exceeded the survey findings, the association added, because production reports were received from only sixty-one of about 150 companies believed to be manufacturing such items. The survey figures are estimated to account for about 70 percent of actual production.

Production of sweeping compounds for use in commercial, industrial, and public building maintenance, including sales to all government agencies, totaled 45,526,482 pounds, the survey also showed, while 591,980 gallons of chemical for treatment of dust mops, exclusive of floor oils, also were turned out by the sixty-one reporting companies.

Other 1955 production figures reported in the survey—second annual study to be conducted in the wax and floor finishes industry by CSMA—were as follows:—

- Resin finishes:—Aqueous type, 776,587 gallons; alcohol type (not including shellac varnishes), 257,280 gallons.
- Liquid floor cleaners and wax strippers:—Less than 20 percent non-volatile, 3,992,393 gallons; 20 percent and greater non-volatile, 1,819,807 gallons.
- Floor sealers and gym finishes:—Non-aqueous, oleoresinous, petroleum solvent types, 1,614,652 gallons; lacquer and other types, 78,439 gallons.

Among waxes, 8,103,569 gallons of self-polishing emulsions containing less than 16 percent non-volatile ingredients were produced while an additional 1,427,622 gallons were turned out with 16 percent and greater non-volatile ingredients.

Paste wax emulsions accounted for 412,243 pounds, while solvent type wax production included 470,715 gallons of liquid formulations and 2,464,385 pounds of paste types.

NOW WITH COLGATE: Willem Lasthuysen, former chief chemist of Dodge & Olcott, Inc., New York, who has joined the perfumery and essential oils division of Colgate-Palmolive Company, Jersey City, N. J.

ACS Medal Won By David Killeffer

David H. Killeffer, writer, publicist, and for more than thirty years a leader in the interpretation of chemical progress to the layman, has won the first James T. Grady medal, given by the American Chemical Society for distinguished reporting of chemistry, chemical engineering, and related fields.

Presentation of the award to Mr. Killeffer by the society will be made at a time and place to be announced later.

Mintener Resigns from HEW

Bradshaw Mintener last week resigned his post as assistant Secretary of the Department of Health, Education and Welfare, where he supervised operations of the Food and Drug Administration. His resignation takes effect October 10. He plans to engage in the practice of law.

Universal Oil Sale Urged by O'Connor

Greater financial support for education and research in the petroleum field would be made available by sale of the Universal Oil Products Company and investment of the proceeds in a diversified portfolio, Dr. Ralph Connor, chairman of the board of the American Chemical Society, declared in a statement made public last week.

The entire capital stock of UOP, a research organization with headquarters in Des Plaines, Ill., is owned by the Guaranty Trust Company of New York as trustee of the Petroleum Research Fund. The American Chemical Society, which has no ownership interest in UOP, administers the educational and research program of

—Continued on page 70

SCI Meets Wednesday

The American section of the Society of the Chemical Industry will hold a luncheon meeting Wednesday at which Sir Eric Rideal will be guest speaker. Sir Eric is an interna ionally known authority in the field of catalysis and professor at the Imperial College, London, England. The meeting will be held at 12:55 p.m. in the Biltmore hotel, New York.

Dr. V. E. Wellman

R. W. Daniels

P. G. Connell, jr.

CYANAMID PICKS THREE DEPARTMENT MANAGERS: Dr. V. E. Wellman, named manager of the petrochemicals department in the organic chemicals division of American Cyanamid Company, New York. R. W. Daniels, appointed manager of the intermediates department in that division. P. G. Connell, jr., made manager of the rubber chemicals department in Cyanamid's organics unit.

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CHEMICALS AND RELATED MATERIALS

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Current MARKET Quotations

Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, September 28 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).
Acenaphthene, below 92.5 C., m.p., dms., works lb. .40 - —
above 92.5 C., m.p., bbls., dms., lb. .41 - .50
Acetaldehyde, 99%, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13½ - —
tanks, dlvd lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., flaked, bbls., bgs., c.l., frt. alld lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .33 - —
USP, bbls., 2,000-lb. lots lb. .79 - —
smaller lots lb. .80 - .81
Acetic anhydride, dms., c.l., dlvd. E. lb. .16½ - —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib. dms., c.l., dlvd. . lb. 1.35 - —
l.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd.. lb. .82 - —
l.c.l., dlvd lb. .83 - —
Acetone, CP, dms., c.l., dlvd lb. .10½ - —
l.c.l., dlvd lb. .11½ - —
tanks, dlvd lb. .09 - —
Methyl (see M).
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt. equald. lb. 1.17 - 1.19
Acetophenone, cns., dms lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .75 - —
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetyltributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .36 - —
l.c.l., frt. alld. E. of Denver lb. .35 - —
tanks, frt. alld. E. of Denver, lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39 - —
l.c.l., frt. alld E. of Denver, lb. .40 - —
tanks, frt. alld. E. of Denver, lb. .37 - —
Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt. alld lb. .60 - —
Acid, abietic, coml., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490 - —
cryst., dms., c.l. works lb. .06½ - —
l.c.l., works lb. .07 - .07½
Acetic, coml., or redist., 28%, bbls 100 lbs. 4.80 - —
56%, bbls 100 lbs 8.25 - —
70%, bbls 100 lbs. 9.95 - —
80% bbls 100 lbs. 10.45 - —
glacial, syn., CP, dms., dlvd. 200 lbs. 22.00 - 23.00
tech., dms. c.l., dlvd 100 lbs. 13.75 - —
l.c.l., dlvd. 100 lbs. 14.25 - —
tanks, dlvd 100 lbs. 10.00 - —
USP cbys., inclusive, dlvd., 100 lbs. 31.00 - 32.00
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .61 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (80 mesh) bbls., 1,000-lb. lots, lb. .56 - .58
Freight equald, shipt. identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.
Adipic, bgs., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .34½ - —
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75
p-Aminobenzoic, tech., dry, dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 - —
smaller lots, works lb. 2.55 - 2.60
p-Aminosalicylic, dms., 100 lbs or more, frt. adjusted lb. 3.70 - —
Anthranilic, 99%, 150-lb. dms., dlvd. lb. 1.10 - —
Arsenous, tech. (see Arsenic, white), USP (see Arsenic trioxide).
Ascorbic USP, dms., 25-100 kilo lots kilo. 12.00 - —
10-kilo lots kilo. 12.25 - —
5-kilo lots kilo. 12.75 - —
bots. 1-kilo lots kilo. 13.00 - —
500-gram lots kilo. 13.50 - —
Battery, cbys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45
Acid, benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid b-Oxynaphthoic).
Boric, tech., 99.9%, cryst., bgs., c.l., works ton 126.75 - —
ton lots, ex whse, N. Y. or Chi. ton 176.50 - —
smaller lots, same basis. ton 181.50 - —
dms., c.l., works ton 151.25 - 172.25
ton lots, ex whse. N. Y. or Chi ton 201.00 - 222.00
smaller lots, same basis. ton 206.00 - 227.00
gran., bgs., c.l., works ton 101.75 - —
ton lots, ex whse. N. Y. or Chi. ton 151.50 - —
smaller lots, same basis. ton 156.50 - —
dms., c.l., works ton 126.25 - 147.25
ton lots, ex whse. N. Y. or Chi ton 176.00 - 197.00
smaller lots, same basis. ton 181.00 - 202.00
bulk, c.l., works ton 95.75 - —

Acacia—Acid, Itaconic

Acid, boric, tech., 99.9%, powd., bgs., c.l., works ton 106.75 - —
ton lots, ex whse. N. Y. or Chi ton 156.50 - —
smaller lots, same basis. ton 161.50 - —
dms., c.l., works ton 131.25 - 152.25
ton lots, ex whse., N. Y. or Chi ton 181.00 - 202.00
smaller lots, same basis. ton 186.00 - 207.00
Boric acid in kegs $45.50 per ton higher than in paper bgs USP boric Acid $25 per ton higher.
Broenners, bbls lb. 1.76 - —
Butyric, 99%, dms., c.l., works lb. .34 - —
l.c.l., works lb. .34½ - —
tanks, works lb. .32½ - —
Capric, dms lb. .25 - .27
Caprylic, dms lb. .25 - .27
Cassella, dms., frt. alld., 100% basis lo 1.44 - 1.75
Castor oil, dms lb. .17¾ - .19¾
Chicago, paste bbls., frt. alld lb. 3.21 - —
Chloroacetic, mono purif., flake, 99% dms lb. .23½ - .25¼
tech., flake, 96-97%, dms., frt. equald lb. .20 - .21
o-Chlorobenzoic, fib dms., t.l., works lb. 1.10 - —
smaller lots, works lb. 1.25 - —
Acid, p-chlorobenzoic, fib. dms., 2,000 lbs. or more, works lb. 2.25 - —
less than 2,000 lbs., same basis. lb. 2.30 - —
Chlorosulfonic, dms., c.l., frt. equald lb. .0465 - —
l.c.l., frt. equald lb. .0515 - —
tanks, frt. equald lb. .0415 - —
Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.
Chromic, 99¾%, dms. c.l., works, frt. equald lb. .28½ - —
l.c.l., dlvd., N. Y. metropolitan area lb. .29 - .30
NF (see Chromium trioxide).
Cinnamic, refd., bots lb. 2.50 - 3.50
Citric, USP, anhyd., gran., fine gran., bgs., dms., c.l. lb. .29½ - .30
10,000-lb lots, 1 shipt. lb. .30 - .30¼
smaller lots lb. .30½ - .31
hydrous, gran., fine gran., bgs., dms., c.l lb. .27½ - .28
10,000-lb lots, 1 shipt. lb. .28 - .28¼
smaller lots lb. .29 - .29¼
Powdered citric acid ½c. higher.
Cleve's, mixed, bbls lb. .79 - —
Coconut oil, dist., dms lb. .25 - .27
tanks lb. .23 - —
dbl. dist., dms lb. .25 - .27
tanks lb. .23 - .24
Corn oil, dist., dms lb. .16¾ - .18¾
tanks lb. .14¾ - —
Cottonseed oil, dist., dms lb. .15¾ - .17¾
tanks lb. .13¾ - —
2,3-Cresotic, dms., ton lots, works, lb. .70 - —
less than ton lots, works lb. .72 - —
Cresylic, oaltar, dom., resin and tricresyl phosphate grade, 50%, 207° or above, tanks, frt. equald. gal. 1.10 - —
204° to 207° C., tanks, frt. equald gal. 1.20 - —
non-resin grade, 50%, 210° or above, total range over 9° C., dms., c.l., frt. equald. gal. 1.15 - —
l.c.l., frt. equald gal. 1.19 - 1.20
tanks, frt. equald gal. 1.00 - —
Imp., 75% at 215° C. or over, dms., ex whse gal. .95 - —
petroleum, dom., 195° to 214°C., non-ret. dms., 65 to c.l., works, San Francisco and Los Angeles gal. .80 - —
l.c.l., same basis gal. .82 - .84
tanks, same basis gal. .65 - —
200° C. to 222° C., tanks, Wilmington, Cal lb. .63 - .72
211° C. to 237° C., non-ret, dms., c.l., San Francisco and Los Angeles gal. .76 - —
l.c.l., same basis gal. .78 - .80
tanks, same basis gal. .61 - —
220° C. to 242° C., tanks, Wilmington, Cal lb. .62 - .67
245° C. to 295° C., tanks, Wilmington, Cal gal. .50 - —
Crotonic, fib. dms., 200 lbs. or more, works lb. .50 - —
Cyanoacetic, tech., bbls. lb. .90 - 1.25
Dichlorophenoxyacetic (see 2,4-D).
Diethylbarbituric (see Barbital).
Diglycolic, bgs., works lb. .14 - —
Dithiodibenzoic, dms., 1,000-lb. lots, works lb. 1.43 - —
2-Ethyl hexoic, dms., c.l., dlvd. lb. .37 - —
l.c.l., dlvd lb. .38 - —
tanks, dlvd lb. .34½ - —
F, crude paste, bbls, works lb 2.10 - —
Folic, bots fib cns kilo lots or more gram 1.40 - —
Formic, 85% chys., c.l., works lb. .1570 - —
l.c.l., works lb. .1620 - .1720
90% chys c.l. works lb. .1625 - —
l.c.l. works lb. .1675 - .1775
Fumaric tech., bgs., dms., c.l., frt. alld. E lb. .25½ - —
l.c.l., same basis lb. .26½ - —
Gallic, NF VII bbls. 1,000-lb lots lb. 1.90 - —
smaller lots lb. 1.92 - 2.00
tech. bbls., 1,000-lb lots lb 1.38 - —
smaller lots lb. 1.82 - 2.00
Gamma, dry, grd. bbls. frt. alld lb 1.50 - —
paste bbls frt. alld lb 1.45 - —
Gentisic 100-lb fib dms lb 8.50 - —
Gluconic, tech., 50% bots lb. .25 - .35
cbys lb. .19 - —
dms lb. 15½ - —
l-Glutamic 99½% fib. dms., 100-lb. lots, frt. alld lb. 2.00 - —
25-lb. lots, frt. alld lb. 2.05 - —
Glycolic (see Acid hydroxyacetic).
H, dry, bbls., c.l., works, 100% basis lb. 1.00 - —
l.c.l., same basis lb. 1.02 - —
Hydriodic, 1.50 s.g., cbys lb. 2.94 - —
1.70 s.g., cbys lb. 3.23 - —
Hydrobromic, medicinal, 48%, cbys., dlvd E lb. .37 - .43
Hydrochloric, anhyd. (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt. equald ton 28.00 - —
20° cbys., c.l., works 100 lbs. 2.75 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt. equald ton 30.00 - —
22°, cbys., c.l., works 100 lbs. 3.25 - —
l.c.l., dlvd., Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt. equald ton 35.00 - —
CP, USP, consumers, cbys., extra, c.l., works lb. .13¾ - —
l.c.l., same basis lb. .17¼ - .17¾
5-pint bots, extra, cs., c.l., same basis lb .20¾ - —
l.c.l., same basis lb. .22¼ - .23¼
Acid, hyrdochloric, CP, USP, prices to dealers 1½c. per lb. less.
Hydrocyanic, cyls., c.l., dlvd lb. .70 - —
l.c.l., same basis lb. .75 - .90
dilute, NF, 2%, 3-lb. bots lb. .40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
aqueous, 70%, 55-gal. dms., c.l., t.l., dlvd 100 lbs. 19.25 - —
l.c.l., l.t.l., dlvd 100 lbs. 20.75 - —
20-gal. dms., c.l., t.l., dlvd. 100 lbs. 21.00 - —
l.c.l., l.t.l., dlvd 100 lbs. 22.50 - —
tanks, works, frt. equald. 100 lbs. 13.50 - —
Delivered prices apply to all states east of Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Washington, and Wyoming. In those states add $2.70 per cwt. for drum delivery.
Hydrofluosilicic, dms., works, 30% basis lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .095 - —
Hypophosphorus, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys. lb. .88 - —
Isonicotinic, 100-lb. fib. dms., works lb. 4.25 - —
Hydrazide (see Isoniazid).
Itaconic, tech., fib. dms., c.l., works lb. .43 - —
l.c.l., works lb. .44 - —
purif., fib. dms., c.l., works lb. .53 - —
l.c.l., works lb. .54 - —

Abbreviations

Used in OPD Market Quotations

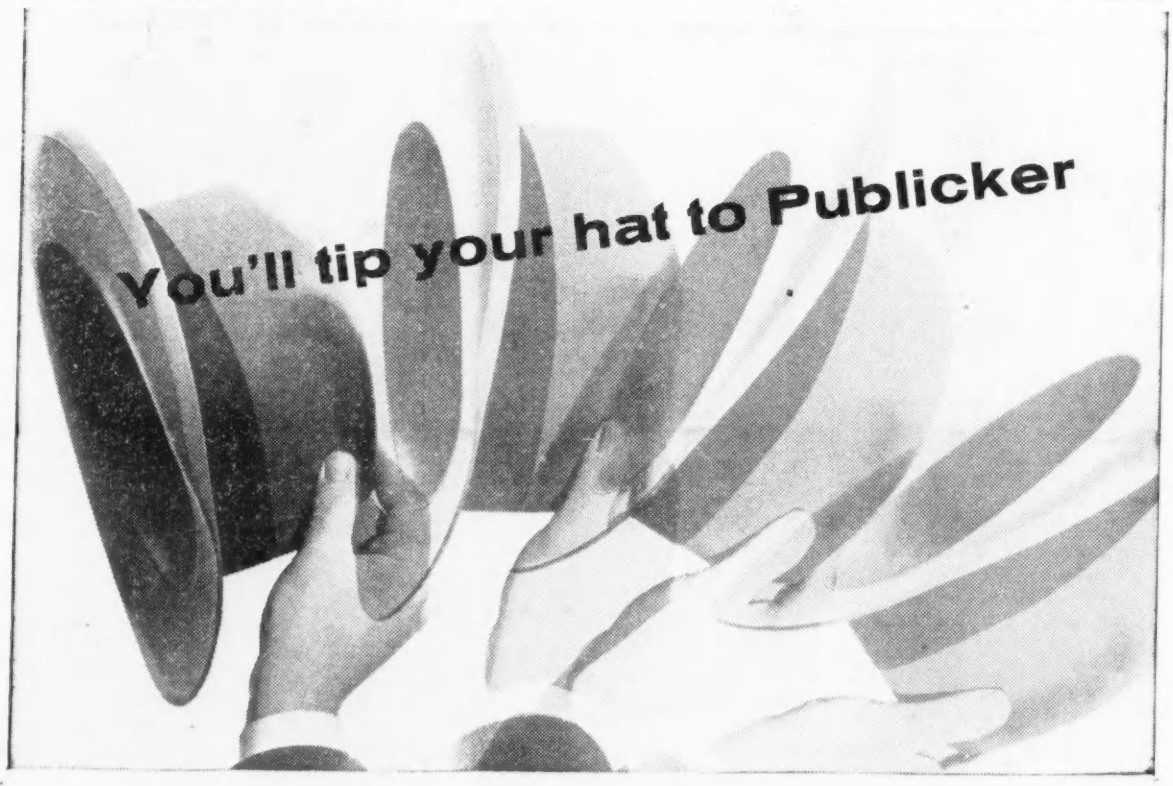
alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	dlvd.	delivered	nom.	nominal
anhyd.	anhydrous	dms.	drums	o-	ortho
a.p.a.	available phosphoric acid	dom.	domestic	ord.	ordinary
approx.	approximately	E.	east	oz.	ounce
artif.	artificial	e.p.	end point	p-	para
ASTM	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
Atl.	Atlantic	exp.	expressed	pf.	proof
Be.	Baume	F.	fahrenheit	phos.	phosphate
bbls.	barrels	ferment.	fermentation	photo.	photographic
bgs.	bags	f.f.a.	free fatty acid	pkgs.	packages
bls.	bales	f.f.c.	free from chlorine	powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
b.r.	boiling range	frt.	freight	pulv.	pulverized
bxs.	boxes	gal.	gallon	purif.	purified
C.	centigrade	gran.	granular	redist.	redistilled
cbys.	carboys	grd.	ground	refd.	refined
CD	completely denatured	i.&a.	iron and aluminum	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	reg.	regular
cks.	casks	imp.	imported	resub.	resublimed
c.l.	carlots	incl.	included	ret.	returnable
cns.	cans	indust.	industrial	SD	specially denatured
coml.	commercial	kgs.	kegs	s.d.	single distilled
conc.	concentrated	l-	laevo	S. E.	southeast
CP	chemically pure	lacq.	lacquer	sec.	secondary
cps.	centipoises	lb.	pound	secs.	seconds
cryst.	crystal	l.c.l.	less than carlots	s.g.	specific gravity
cs.	cases	l.t.l.	less truckload	ship't	shipment
ctns.	cartons	liq.	liquid	soln.	solution
cyls.	cylinders	mfrs.	manufacturers	s.u.	standard unit
d-	dextro	m-	meta	syn.	synthetic
dbl.	double	m.a.p.	mixed aniline point	tanks.	railroad tankcars
denat.	denatured	min.	minimum	tech.	technical
dest-dist.	destructive-distilled	m.p.	melting point	tert-	tertiary
dl-	dextro-laevo	N-	nitrogen	t.l.	truck loads
dist.	distilled	n-	normal	t.w.	tank wagons
		nat.	natural	USP	U. S. Pharmacopoeia
		neut.	neutral	vis.	viscosity
		NF	National Formulary	VM&P	varnish makers & painters
				W.	west
				whse.	warehouse
				w. w.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, J, paste, bbls., works, 100% basis lb. 2.45 - —
powd., bbls., same basis lb. 2.50 - 2.85
Koch, bbls., frt. alld., 100% basis, lb. 1.00 - —
L, bbls., works lb. 1.25 - —
Lactic, edible, 50%, bbls., 20 or more lb. .1821- .215
smaller lots lb. .1921- .225
80%, bbls., 5 or more lb. .3121- .37
smaller lots lb. .3171- .375
plastic grade, 50%, bbls., 20 or more, works lb. .23 - —
1 to 19 lb. .235 - —
80%, bbls., 5 or more lb. .385 - —
tech., 22%, bbls., c.l., works 100 lbs 6.30 - —
l.c.l., works 100 lbs 6.70 - —
cbys., l.c.l., works 100 lbs 12.20 - —
44%, bbls., c.l., works 100 lbs 11.45 -11.95
l.c.l., works 100 lbs 11.85 -12.35
USP, 85%, cbys. lb. .85 .88
Laurent's, buls lb. .60 —
Lauric, 90%, dms lb. .36½- .38½
Linseed oil, dist., dms lb. .1900- —
w.w., dms lb. .2200- —
Maleic, cryst, powd, dms lb. .37 .38
Malic, tech., dms lb. .50 —
Mandelic, NF, dms., 1,000-lb. lots. lb 2.35 - —
smaller lots lb 2.40 2.50
Metanilic, dms., works lb. .57 .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½- —
smaller lots, works lb. .55 - —
Molybdic, 85%, dms., works lb. 1.26 - —
Monochloroacetic, purif. (see Acid, Chloroacetic, mono-).

Acid, muriatic (see Acid, hydrochloric).
Myristic, dms lb .26 - .28
1-naphthol-4 sulfonic (see Acid, Neville and Winthers).
1-Naphthol-5-sulfonic (see Acid, L).
1-Naphthol-5-sulfonic, 8-amino (see Acid, S).
1-Naphthol-3,6-disulfonic, 8-amino (see Acid, H).
2-Naphthol-6,8-disulfonic (see Acid, Gamma).
5-Naphthol-7-sulfonic, 2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's).
2-Naphthylamine-4,8-disulfonic (see Acid, Cassella).
2-Naphthylamine-6-sulfonic (see Acid, Broenner's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid, Tobias).
Nevile and Winther's, dms., frt. alld lb 1.20 - —
Nicotinic, USP, dms., dlvd kilo 8.00 - 8.30
Amide, USP (see Nicotinamide).
Nitric, 36° Be, cbys., c.l., works, E 100 lbs. 5.75 - —
l.c.l., works, E 100 lbs. 6.05 - 6.85
38° Be, cbys., c.l., works, E. 100 lbs. 6.25 - —
l.c.l., works, E 100 lbs. 6.55 - 7.35
40° Be, cbys., c.l., works, E. 100 lbs. 6.75 - —
l.c.l., works, E 100 lbs. 7.05 - 7.85
42° Be, cbys., c.l., works, E. 100 lbs. 7.25 - —
l.c.l., works, E 100 lbs. 7.55 - 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —

Acid, nitric, CP, NF, consumer, cbys., extra, c.l., works lb. .18½- —
l.c.l., same basis lb. .20 - .20½
5 pt. bots. extra, cs., c.l., same basis lb. .22½- —
l.c.l., same basis lb. .24 - .25
p-Nitrobenzoic, dms., c.l., works. lb. .72 - —
l.c.l., works lb. .73 - —
Oleic, s.d., dms lb. .18½- .20½
tanks lb. .16½- —
dbl. dist. (white), dms. lb. .20½- .22½
tanks lb. .18½- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Creosotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —
b-Oxynaphthoic, fib. dms., 250 lbs. or more, frt. alld lb. 1.14 - 1.17
Palm, dist., dms lb. .14¾- .16¾
tanks lb. .12¾- —
Para-aminobenzoic (see Acid, p-Aminobenzoic).
Para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst. cns. lb. 1.45 - 1.75
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see mandelic).
Phosphoric, food grade, 75%, cbys., c.l., works, E., frt. equald 100 lbs. 6.75 - —
l.c.l., same basis 100 lbs. 7.00 - 7.50
tanks, works 100 lbs. 5.35 - —
80%, cbys., c.l., frt. alld. 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 7.85 - 9.10
tanks, works 100 lbs. 5.75 - —



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★ *Butyl Alcohol* ★ *Amyl Acetate*
★ *Butyl Acetate* ★ *Acetone*
★ *Acetaldehyde* ★ *Acetic Acid*
★ *Refined Fusel Oil*

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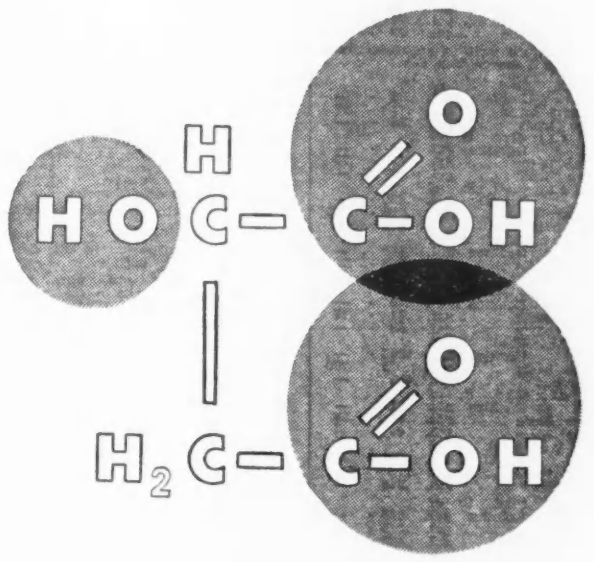
Acid, phosphoric, NF, 85%, cbys., c.l., works lb. .0625- —
l.c.l., works lb. .0850- .0975
tanks, works lb. .0640- —
Picric, NF, bbls lb. .60 - —
tech., bbls lb. .34 - .35
Propionic, syn., pure, dms., c.l., frt. alld lb. .22¾- —
l.c.l., frt. alld lb. .23¾- —
tanks, frt. alld lb. .20¾- —
Pyrogallic, NF, (see Pyrogallol).
tech., bbls lb 2.76 2.99
Ricinoleic (see Acid, castor oil, split).
S., bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms., c.l., frt. alld lb. .35 - —
l.c.l., frt. alld. on 100 lbs. or more lb. .36 - —
sublimed, tech., fib. dms., c.l., dlvd lb. .37 - —
l.c.l., dlvd lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib. dms lb. .55 - —
Sebacic, purif., dms., c.l., works. lb. .64 - —
l.c.l., works lb. .66 - .70
Soybean oil, dbl. dist., dms lb. .18¾- .20¾
tanks lb. .16¼- —
s.d., dms lb. .17¼- .19¼
tanks lb. .15¼- —
Stearic, dbl. pressed, bgs lb. .15¼- .17¼
single pressed, bgs lb. .14¾- .16¾
triple pressed, bgs lb. .17½- .19½
Succinic, purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, cbys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton. 18.60 - —
66° Be, cbys., c.l., works 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 - 3.35
tanks, works ton. 22.35 - —
98%, tanks, works ton. 23.50 - —
99-100%, tanks, works ton. 23.95 - —
CP, NF, consumers, frt. equald. lb. .12¾- —
l.c.l., same basis lb. .14¼- .14¾
5-pt. bots., extra cs., cl., works, frt. alld lb. .16¼- —
l.c.l., same basis lb. .18¼- .18¾
fuming (oleum), 20%, tanks, works ton. 25.00 - —
40%, tanks, works ton. 29.00 - —
65%, tanks, works ton. 39.50 - —
Tall, dms., c.l., works lb. .09 - .09½
tanks, works lb. .07½- .08
Tallow, dist., dms lb. .13¼- .17¼
tanks lb. .13¼- —
hydrogenated, dms lb. .14¼- .16¼
Tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 2.05 - —
smaller lots lb. 2.06 - 2.10
powd., bbls., 1,000-lb. lots lb. 1.95 - —
smaller lots lb. 1.96 - 2.01
tech., dms lb. 1.05 - —
Tartaric, USP, dom., 230 or 250-lb. dms., c.l. lb. .47 - —
10,000-lb. lots, 1 shipt lb. .47½- —
smaller lots lb. .48 - —
100-lb. dms. lb. .49 - —
imported lb. .39½- .40
Thioglycolic, refd., cbys., 100% basis lb. 1.35 - 1.55
Thiosalicylic, purif., dms., 1,000-lb. lots, works lb. 4.00 - —
Tobias, bbls., frt. alld lb. .81 - —
p-Toluenesulfonic, dms., c.l., t.l., works lb. .17 - —
l.c.l., works lb. .18 - —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l. lb. .90 - —
125 lbs. to t.l. lb. 1.00 - —
p-Toluidine-m-sulfonic, bbls., works lb. .92 - 1.04
Trichloroacetic, bots. lb. 2.00 - 2.50
Trichlorophenoxyacetic (see 2,4,5-T).
Tungstic, tech., kgs., works lb. 4.25 - —
Undecylenic, dms lb. 1.40 - —
Aconite root, bls lb. .50 - .55
Acrolein, tech., dms., c.l., works. lb. .47 - —
l.c.l., works lb. .47½- —
tanks, works lb. .46 - —
Acrylonitrile, dms., c.l., t.l., frt. equald lb. .30 - —
l.c.l., t.t.l., frt. equald lb. .31 - —
tanks, frt. equald lb. .27 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 2.25 - —
powdered, 30 mesh., fib., dms. lb. 2.75 - —
dl-Alanine, dms., works lb. 8.50 -11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms lb. .65 - 1.00
Egg, edible, cryst., powd., bbls. lb. 1.89 - 1.91
flake lb. 1.85 - 1.87
tech., cryst., bbls lb. 1.08 - 1.10
Alcohol, allyl, dms., c.l. dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°-132° C., dms., l.c.l., dlvd lb. .43 - —
ACS grade, dms., l.c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .18 - —
l.c.l., frt. alld lb. .19 - —
tanks, frt. alld lb. .15½- —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., works, frt. alld lb. .18½- —
l.c.l., works lb. .19½- —
tanks, works lb. .16½- —
tert-synthetic, dms., c.l., frt. alld, E lb. .18 - —
l.c.l., frt. alld E lb. .19 - —
tanks, frt. alld E lb. .15½- —
1-pentanol, (syn. normal), dms., c.l., works lb. .41½- —
l.c.l., works lb. .42½- —
tanks, works lb. .39½- —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .72
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., c.l., frt. alld lb. .16 - —
l.c.l., frt. alld lb. .17 - —
tanks, frt. alld lb. .13½- —
synthetic, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .13½- —
sec-synthetic, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd. lb. .15 - —
tanks, dlvd lb. .11½- —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, frt. alld lb. .12 - —
Capryl, 95%, dms., c.l., works lb. .21½- —
l.c.l., works lb. .22½- .23½
tanks, works lb .19½- —
Cetyl, extra, fib. cns., 500-lb. lots or more lb. .65 - .72
NF, fib. cns., 140-lb. lots or more lb. .48 - —
Cinnamic, bots lb. 2.15 - 2.75

check this list of uses for

MALIC ACID

TECHNICAL



Another Reactive National Aniline Chemical

Made by National Aniline's unique process for 34 years, this versatile tri-functional intermediate finds ever-increasing usefulness in surface coatings, plasticizers and resins. It is widely used to increase adhesion and improve stability of vinyl butyral wash primers, zinc chromate primers, lacquers and lacquer primers.

Other interesting applications for National Malic Acid already described in technical literature include:

. . . ingredient in polyester resins and plasticizers

. . . stabilizer for ethyl cellulose

. . . greening inhibitor in copper lacquers

. . . epoxy resin ingredient for glass coatings

. . . alkyd resin in molded electrical insulation

. . . paper impregnator for electrolytic condensers

. . . dispersing agent in the manufacture of shellac and shellac substitutes

. . . anti-oxidant for synthetic detergents

. . . compatibility agent for fire-retardant finishes

. . . extractant for pectins

. . . electrolyte component for oxidation of aluminum

National Malic Acid is 98.5% minimum acidity, low in ash and insolubles. Complete specifications and working sample are available on request. Our technical staff is ready at all times to work with prospective users.

NATIONAL ANILINE DIVISION
ALLIED CHEMICAL & DYE CORPORATION
40 RECTOR STREET, NEW YORK 6, N.Y.
Boston Providence Charlotte Chicago San Francisco Atlanta
Portland, Ore. Greensboro Philadelphia Richmond Cleveland
Los Angeles Columbus, Ga. New Orleans Chattanooga Toronto

Please send sample of Malic Acid to:

Name _____

Address _____

City _____

_____

I-1

Alcohol, decyl mixed isomers, dms., c.l., dlvd lb. .23½- —
l.c.l., dlvd lb. .24½- —
tanks, dlvd lb. .21 - —
perfume grade, bots lb. 1.75 - 2.00
normal (see 1-Decanol).
Denat. CD-12, CD-13, CD-14, CD-17, dms., c.l., dlvd. E of Rockies gal. .64½- .66
l.c.l., same basis gal. .69½- .77
tanks, dlvd., same basis, gal. .48½- .50
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .66 - —
l.c.l., same basis gal. .71 - .77
tanks, same basis gal. .50 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.

SD1, dms., c.l., dlvd. E. of Rockies gal. .66 - —
l.c.l., same basis gal. .71 - .77
tanks, same basis gal. .50 - —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .64 - —
l.c.l., same basis gal. .69 - .75
tanks, same basis gal. .48 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .635 - —
l.c.l., same basis gal. .685 - .745
tanks same basis gal. .475 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .655 - —
l.c.l., same basis gal. .705 - .765
tanks, same basis gal. .495 - —
SD23H, dms., c.l., dlvd. E. Rockies gal. .66 - —
l.c.l., same basis gal. .71 - .77
tanks, same basis gal. .50 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .645 - —
l.c.l., same basis gal. .695 - .755
tanks, same basis gal. .485 - —
SD30, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis gal. .68 - .74
tanks, same basis gal. .47 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .665 - —
l.c.l., same basis gal. .715 - .775
tanks, same basis gal. .505 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .645 - —
l.c.l., same basis gal. .695 - .755
tanks, same basis gal. .485 - —
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.

Diacetone acetone-free, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .125 - —
tech., dms., c.l., dlvd lb. .145 - —
l.c.l., dlvd lb. 1.55 - —
tanks, dlvd lb. .12 - —
Ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal.20.58 - —
l.c.l., same basis gal.20.63 -20.69
tanks, same basis gal.20.42 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .63 - —
l.c.l., same basis gal. .68 - .74
tanks, same basis gal. .47 - —
absolute, 200 pf. tax paid, dms., dlvd. E. of Rockies gal.21.68 - —
l.c.l., same basis gal.21.73 -21.79
tanks, same basis gal.21.52 - —
2-Ethylbutyl, dms., c.l., works lb. .30 - —
l.c.l., works lb. .30¾- —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E. lb. .24¼- —
l.c.l., same basis lb. .25¼- —
tanks, same basis lb. .21¾- —
Furfuryl, cns., works lb. .29 - —
dms., c.l., Memphis, Tenn. lb. .20 - —
Newark, N. J. lb. .21½- —
l.c.l., Memphis, Tenn. lb. .21 - —
Newark, N. J. lb. .22½- —
tanks Memphis, Tenn lb. .184 - —
Hydroabietyl, tech., solid, Zone 1, dms., c.l., dlvd lb. .27 - —
l.c.l. dlvd lb. .27½- —
tanks, dlvd lb. .25 - —
Isoamyl, dms., c.l., works, frt. alld, E lb. .28 - —
l.c.l., same basis lb. .29 - —
tanks, same basis lb. .25 - —
Isobutyl, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .12½- —
Iso-octyl, dms., c.l., dlvd. E lb. .23½- —
l.c.l., dlvd E lb. .24½- —
tanks, dlvd E lb. .21 - —
Isopropyl, refd., 91%, dms., c.l., dlvd gal. .53 - —
l.c.l., dlvd gal. .60 - —
tanks, dlvd gal. .37 - —
95%, c.l., dlvd gal. .55 - —
l.c.l., dlvd gal. .62 - —
tanks, dlvd gal. .39 - —
99%, dms., c.l., dlvd gal. .57 - —
l.c.l., dlvd. gal. .64 - —
tanks, dlvd gal. .41 - —
Lauryl, bots lb. 2.00 - 2.50
Methyl (see Methanol).
Methylamyl (see Methyl isobutyl carbinol).
Octyl, perfumer's grade, bots lb. 1.60 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms lb. 1.14 - 1.45
standard, dms lb. 1.10 - 1.60
n-Propyl, dms., c.l., dlvd lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .10½- —
Tetrahydrofurfuryl, dms., c.l. or t.l., f.o.b. Memphis, Tenn lb. .37 - —
l.c.l. or l.t.l., f.o.b. Memphis, Tenn lb. .38 - —
f.o.b. Newark, N. J. lb. .40 - —
tanks, dlvd. E. of Denver lb. .365 - —
dlvd. W. of Denver lb. .375 - —
Tridecyl, mixed isomers, dms., dlvd lb. .26½- —
l.c.l., dlvd lb. .27½- —
tanks, dlvd lb. .24 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms gal. 2.15 - —
Aldrin, tech., fib. dms., c.l., t.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .85 - —
Aletris root, bgs lb. 1.75 - 1.85
Algin (see Sodium alginate).
Alizarine (see 1,2-dihydroxy anthraquinone).
Allethrin, 90%, dms. frt. alld lb.28.80 -28.90
soln., 20%, dms., 200-2,000 lb. lots, frt. alld lb. 6.50 - 6.55
2½%, dms., frt. alld lb. .95 - 1.00
Allspice (see Pimento).
Allyl bromide, cbys., works lb. 1.45 - 1.50
Chloride, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .15 - —
Aloe, Cape, cs lb. .50 - —
powd., cs lb. .65 - —
Curacao, kgs lb. .60 - —
Aloin, USP, bbls., dms., kgs lb. 3.75 - 3.82
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).

Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs 4.30 - —
lump, dms., works 100 lbs 5.05 - —
powd. dms., works 100 lbs 5.20 - —
USP, burnt, dms lb. .20 - .21
hydrous, dms lb. .07¾ .08
Potassium, gran., bgs., works, 100 lbs. 4.55 - —
lump, dms., works 100 lbs 5.30 - —
powd., dms., works 100 lbs 5.45 - —
USP, burnt dms lb. .20 .21
hydrous dms lb. .07¾- .08
Potash-chrome dms lb. .17 - —
Alumina, calcined, bgs., c.l., works, lb. .0455- —
l.c.l., works lb. .048 - .0755
Aluminum acetate, basic soln., 24%, bbls. l.c.l. works lb. .14 —
Chloride, coml., anhyd. dms., c.l., works, frt. equald lb. .15½- —
l.c.l. works, frt equald, lb. .16 - —
cryst., dms., c.l., works lb. .1450- —
l.c.l., works lb. .1500- —
soln. 32° chys., c.l., works lb. .0445- —
l.c.l., works lb. 0520- .129
tanks, works 100 lbs. 3.45 - —
NF, gran., dms., works lb. .29 .30
Fluoride tech., anhyd., bgs., c.l., works lb. .15¾- —
l.c.l., works lb. .16¾- .18¾
Aluminum fluoride in fib dms. 0.35c. per lb higher.
Formate basic soln., dms., c.l., l.c.l., works lb. .12½- —
works lb. .12 - —
Hydrate, heavy, bgs., c.l., frt. frt. equald lb. .032 - —
20,000-40,000 lb. lots, same basis lb. .0345- —
2,000-20,000 lb lots, same basis lb. .0445- —
bulk, same basis lb. .0295- —
Hydroxide, gel, pharmaceutical, 14-15% Al_2O_3, fib. dms., works, lb. .22 - —
contract, works lb. .21 —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP. XIV, fib dms., works lb. .82½- —
contract, works lb. 79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .2710- —
pigs, 10,000-lb. lots, frt. alld, lb. .2500- —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms lb. .68 - —
standard grade, dms lb. .48 - —
Powder, lining, extra, fine, dms. lb. 1.09 - —
standard grade, dms lb. .78½- —
Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10 lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over
Resinate, precip., 2.1% Al, dms. 100 lbs. 7.26 - —
Stearate, dibasic, ctns., c.l lb. .37 - —
l.c.l. lb. .39 - .42
monobasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .39 - .42
tribasic, ctns., c.l. lb. .37 - —
l.c.l. lb. .38 - .42
Sulfate, coml., bulk, c.l., works, 100 lbs. 1.85 - —
grd., bgs., c.l., works ton.37.00 - —
lump, bgs., c.l., works ton.40.00 - —
iron-free, bgs., c.l. works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald, 100 lbs. 3.95 - 4.55
Prices $1 per ton nigher in the south.
USP, gran., dms., works lb. .29 - .30
powd., dms., works lb. .36 - .37
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris, gray, bots oz. 8.00 -10.00
Aminoazotoluene base, bbls., 100% basis lb. 1.03 - 1.18
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .475 - —
l.c.l., dlvd lb. .485 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, dms., c.l., frt. alld lb. .44 - —
l.c.l., frt. alld lb. .45 - —
tanks, frt. alld lb. .42 - —
m-Aminophenol, dist., dms., tin lots, lb. 2.05 - —
smaller lots lb. 2.50 - —
p-Aminophenol, dms., frt. alld lb. 1.15 - —
Aminophylline, USP, 100-lb. dms lb. 3.55 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald ton.72.00 - —
refrigeration, tanks, works, frt. equald ton.82.50 - —
aqueous, tanks, works, anhyd. basis ton.83.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 -11.15
white, gran. (see Ammonium chloride, tech.).
Ammonium acetate, purif., dms lb. .38 - —
Benzoate, USP, dms., kgs. 4,000-lb. lots frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, gran., dms., c.l., works, ton.319.50 - —
ton lots, ex whse ton.395.00 - —
smaller lots, ex whse ton.400.00 - —
Bicarbonate dom., dms., c.l., works, 100 lbs. 7.00 - —
l.c.l., works 100 lbs. 9.00 - —
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .2145- .2245
Bromide, NF, gran., bbls lb. .43 - —
Powdered ammonium bromide 10c. per lb. higher.
Carbonate, USP, lump, dms. lb. .16 - —
Chloride, tech., fine gran., bgs., c.l., works 100 lbs. 5.75 - —
l.c.l., works 100 lbs. 7.75 - 8.20
USP, gran., bbls., dms lb. .17¼- —
Citrate, dibasic, bbls lb. .77 - —
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia aqueous).
Hypophosphite, NF, dms lb. 3.07 - —
Iodide, NF, dms., bots lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate dom., fert. grade, 33.5% N., bgs., western works, frt. equald, base price ton.64.00 - —
August discount ton. 4.00 - 5.00

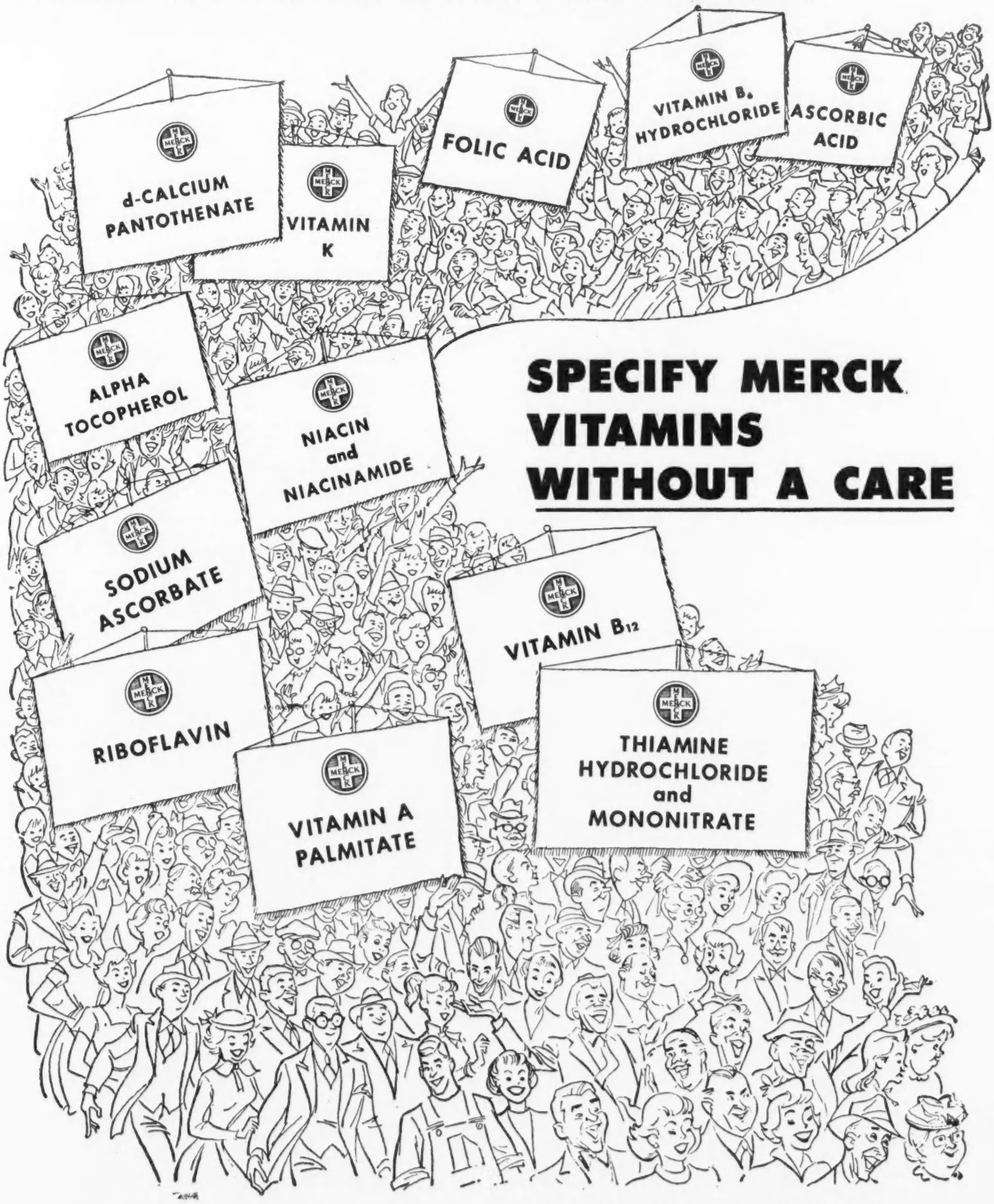
Ammonium nitrate, imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $8 per ton, base price ton.64.00 - —
August discount ton. 5.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton.79.69 - —
with dolomite, 20.5% N, bgs., Hopewell, Va. ton.51.00 - —
Oxalate, fine gran., dms lb. .26½- .31
Pentaborate, gran., bgs., c.l., works ton.187.50 - —
ton lots, ex whse ton.271.50 - —
smaller lots, ex whse ton.276.50 - —
Ammonium pentaborate powder $10 per ton higher.
Persulfate, kgs lb. .38 - .47½
Phosphate, coml., bgs., c.l., works, frt. equald lb. .09¼- —
l.c.l., same basis lb. .10 - —
dibasic, NF, V bbls., dms. lb. .46 - —
tech., bgs., c.l., works, frt. equald lb. .09¼- —
l.c.l., same basis lb. .10 - —
Salicylate, NF, dms., kgs. lb. 1.62 - 1.64
Silicofluoride, dms., works lb. .11¾- .13¼
Sulfamate, bgs., c.l., t.l., works lb. .18 - —
l.c.l., works lb. .22 - —
Sulfate, coke-oven, bulk, producing ovens, base price ton.32.00 - —
syn., bulk, c.l., f.o.b. works ton.32.00 -42.00
purif., dms., works lb. .09 - .09½
Sulfide, liq., 40-44%, tanks, frt. equald., 100% basis ton.160.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l., works lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.65
highly purif., cbys. 100% basis, lb. 1.70 - 1.96
Thiosulfate, cryst., photo grade, fib. dms., frt. alld lb. .65 - —
d-Amphetamine hydrochloride dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-monobasic, bots lb.28.00 - —
d-Phosphate, dibasic, bots lb.28.00 - —
dl, dms lb. 6.00 - —
d-Sulfate, dms. lb.28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld. E. of Rockies lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. 15½- —
ex pentane, reg., dms., c.l., dlvd. lb. .18 - —
l.c.l., dlvd lb. .19 - —
tanks, dlvd lb. .15½- —
tech., dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .13½- —
syn., oxo process, dms., c.l., dlvd lb. .19¼- —
l.c.l., dlvd lb. .20¼- —
tanks, dlvd lb. .17¼- —
Alcohol (see Alcohol, amyl).
n-Butyrate, dms lb. 1.00 - 1.25
Cinnamic, aldehyde, dms lb. 1.70 - 2.20
Nitrite, USP, bots lb. 1.75 - 1.83
Salicylate, cns., dms lb. .82 - 1.10
o-tert-Amyl phenol, dms., c.l., works. lb. .49½- —
l.c.l., works lb. .50½- —
tanks, works lb. .47 - —
p-tert-Amyl phenol, dms, c.l., works. lb. .26¾- —
l.c.l., works lb. .27¾- —
tanks, works lb. .25¾- —
Anethole, NF, cns., dms lb. 1.60 - 1.80
tech., dms lb. 1.10 - 1.15
Angelica root, dom., bls lb. .50 - .70
Aniline oil, dms., c.l., frt. alld lb. .21 - —
l.c.l., frt. alld lb. .22 - —
tanks, frt. alld lb. .20 - —
tankwagons, min. 2,000 gals. lb. .20½- —
Salt, dms., c.l., truckloads, 20,000 lbs., min., frt. alld lb. .31 - —
l.c.l., same basis lb. .33 - —
Anise seed, Mexican, bgs. lb. No price.
Spanish, bgs. lb. .26 - —
Syrian, bgs. lb. .26 - —
Anisic aldehyde, bots., dms lb. 1.95 - 2.70
o-Anisidine, dms., c.l., frt. alld lb. .80 - —
l.c.l., same basis lb. .82 - —
tanks, same basis lb. .78 - —
p-Anisidine, dms., works lb. .97 - —
Annatto seed, whole, bgs lb. .15 - .17
Anthracene, 90-95%, bbls., ton-lots, works lb. .83 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls, c.l., frt. alld lb. .83 - —
l.c.l., same basis lb. .86 - —
electrical grade, bbls., l.c.l., same basis lb. .91 - —
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines lb. .33 - —
cs., c.l., mines lb. .33½- —
Oxide, bgs., c.l., frt. alld lb. .27 - —
l.c.l., frt. alld lb. .28½- —
Sulfide, approx. 65%, bgs., dlvd lb. .23 - .26
Trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
l.c.l., works lb. .43 - —
Antimony-potassium tartrate, tech., powd., dms lb. .65½- .70½
USP, powd., dms lb. .70½- .71½
Antipyrine, NF, 200-lb. bbls lb. 3.50 - —
Apomorphine hydrochloride, USP, 5 oz. lots, bots oz.35.60 - —
Areca nuts, powd., bbls lb. .13 - —
Arecoline hydrobromide, NF, bots., tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms. 1 kilo lots kilo.74.80 - —
Arnica flowers (true montana), bls. lb. 2.25 - —
Arsenic metal, lump, bbls. ex whse. lb. .54 - —
Trioxide, USP, dms lb. .48 - —
White, powd., bbls., c.l., dlvd lb. .05½- —
l.c.l., dlvd lb. .06½- .07½
Asafetida, cn lb. .40 - —
powd., bbls., dms lb. .85 - —
Asbestine (see Talc, fibrous, N. Y.).
Asbestos, Canadian, crude, No. 1, c.l. (20 tons) mines ton.1,400.00- —
No. 2, c.l. (20 tons), mines ton.750.00 - —
Run-of-mine, c.l. (20 tons), mines ton.611.60 - —
3K, c.l. (20 tons), mines ton.480.00 - —
3R, c.l., (20 tons), mines ton.408.10 - —
3T, c.l. (20 tons), mines ton.382.80 - —
3Z, c.l. (20 tons), mines ton.353.10 - —
4K, c.l. (20 tons), mines ton.190.30 - —
4M, c.l. (20 tons), mines ton.190.30 - —
4T, c.l., (20 tons), mines ton.171.60 - —
4Z, c.l. (20 tons), mines ton.171.60 - —
5D, c.l. (20 tons), mines ton.135.00 - —
5K, c.l. (20 tons), mines ton.135.00 - —
5M, c.l. (20 tons), mines ton.122.35 - —
5R, c.l. (20 tons), mines ton.115.50 - —
6D, c.l. (30 tons), mines ton.82.00 - —
7D, c.l. (30 tons), mines ton.72.00 - —
7F, c.l. (30 tons), mines ton.68.25 - —
7H, c.l. (30 tons) mines ton.58.00 - —
7K, c.l. (30 tons), mines ton.48.30 - —
7M, c.l., (30 tons), mines ton.42.00 - —
7R, c.l. (30 tons), mines ton.41.00 - —
7RF, c.l. (30 tons), mines ton.42.00 - —
7T, c.l., (30 tons), mines ton.39.00 - —
7TF, c.l. (30 tons), mines ton.42.00 - —
8S, c.l. (30 tons), mines ton28.35 - —
Asbestos c.l. prices are in U. S. funds, l.c.l. lots $4 per ton higher.

Asphalt, gilsonite, black jet, bgs., c.l., mines ton 37.00 - —
select, 350° F. fusing pt., bgs., c.l., mines ton.38.00 - —
270°-295°F., fusing pt., bgs., c.l., mines ton.37.00 - —
seconds, 300°-390°F. fusing pt., bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. 06¼- —
Petroleum, cut-back, tanks, tankwagon, refy gal. .09 - —
emulsion, tanks, tankwagon, refy. gal. 09½- —
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tank wagon, refy ton.20.00 —
Aspirin, (see Acid acetylsalicylic)
Atropine, USP, bots oz. 3.90 —
Sulfate, USP, bots oz. 2.25 - 2.45

B

Bacitracin bulk, 1,000,000,000 or more units 50,000 units. .70 —
less than 1,000,000,000 units. 50,000 units. .75 —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry root bark, bgs lb. .28 .30
Barbital, USP, 100-lb. dms lb. 4.50 —
Sodium, USP, dms lb. 4.75 4.77
Barium carbonate, precip., bgs., c.l., works ton.100.00 —
smaller lots, works ton.110.00 —
Chlorate, kgs., works lb. .32 - .36
l.c.l., t.l., frt. equald ton.235.00 —
Chloride anhyd., bgs., c.l., works, ton.165.00 - —
l.c.l., works ton.175.00 - —
NF, cryst., dms lb. .20 - —
tech., cryst., bgs., c.l., works, 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.00 - —
Chromate, bgs., frt. equald lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, cryst., bgs., c.l., t.l., frt. equald ton.208.00 - —
l.c.l., t.l., frt. equald ton.218.00 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., t.l., dlvd lb. .16 - —
l.c.l., l.t.l., dlvd lb. .17 - —
Oxide, grd., dms., c.l., t.l., frt. equald ton.275.00 - —
Peroxide, dms. frt. equald lb. .20 - —
Stearate, ctns., c.l., frt. alld lb. .39 - —
l.c.l., same basis lb. .40 .44
Sulfate, tech. (see Barytes and blanc fixe).
X-ray dms lb. .15 .15½
Sulfide, dms., c.l., works ton.85.00 - —
l.c.l. works ton.95.00 - —
Barytes, Southern, off-color, bgs. mines ton.25.00 - —
95-75% bgs. mines ton.25.00 - —
water-grd., paper bgs., c.l., St. Louis ton.45.00 - —
ex-whse, N. Y. ton.65.85 - —
Bauxite, bulk, mines ton 6.75 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls lb. .35 .37
root, bls lb. .45 .50
Bentonite, dom., 200 mesh, bgs., c.l., mines ton.14.00 - —
imp. Italian, white, high gel., bgs., 5-ton lots, ex whse ton.84.00 - —
1 ton lots, ex whse ton.87.00 - —
low gel., bgs., 5-ton lots, ex whse ton.82.35 - —
1 ton lots ex whse ton.85.35 - —
Benzal chloride, cbys., works lb. .44 - —
Benzaldehyde, NF, dms lb. .74 1.05
tech., cbys., dms., t.l. lb. .43 - —
smaller lots lb. .44 - —
Benzene (See Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., high gamma, dms., c.l., dlvd., gamma unit-lb. .0075- .008
l.c.l., works, gamma unit-lb. .009 .0095
low gamma, dms., c.l., dlvd. gamma unit-lb. .0075- —
l.c.l., works, gamma unit-lb. .009 - —
Benzidine hydrochloride, bbls., c.l., frt. alld., 100% basis lb. 1.03 - —
l.c.l., same basis lb. 1.05 - —
Sulfate, tech., frt. alld., 100% basis lb. 1.05 - —
Benzocaine, dms lb. 3.48 - 3.50
Benzol, coaltar, pure or nitration, tanks, works:—
Bethlehem, Pa. gal. .36 - —
Birmingham district gal. .36 - —
Chicago district gal. .36 - —
Cleveland district gal. .36 - —
Geneva, Utah gal. .36 - —
Johnstown, Pa. gal. .36 - —
Lackawanna, N. Y. gal. .36 - —
Lone Star, Texas gal. .36 - —
Lorain, Ohio gal. .36 - —
Middletown, Ohio gal. .36 - —
Minnequa, Colo gal. .36 - —
Philadelphia district gal. .36 - —
Pittsburgh district gal. .36 - —
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. gal. .36 - —
Terre Haute, Ind. gal. .36 - —
Youngstown, Ohio gal. .36 - —
Benzophenone, dms lb. 1.40 - 1.70
Benzotriazole, tech., dms., 1,000-lb. lots, works lb. 2.25 - —
Benzotrichloride, cbys., 1,000-lb. lots or more, frt. equald lb. .18 - —
smaller lots, frt. equald lb. .20 - —
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif., fib. dms., 50 to 1,000-lb. lots, works lb. .98 - 1.08
Benzyl acetate, f.f.c., cns., dms lb. .60 - 1.00
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c., cns., dms lb. .72 - 1.10
Chloride, tech., 13-gal. cbys., dms., c.l., works, frt. equald lb. .23 - —
l.c.l., same basis lb. .24 - —
tank, trucks, dlvd. Metropolitan area lb. .21 - —
A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. in steel dms. prices were ½c. lower.
Cinnamate, cns lb. 3.60 - 3.90
Formate, cns lb. 1.80 - 2.10
Isoeugenol, cns lb. 9.85 - —
Propionate, bots. lb. 1.35 - 1.65
Salicylate, bots. lb. 1.60 - 1.85
Benzylidine acetone, bots lb. 1.75 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns lb.35.00 -36.25
Hydrochloride, bots. lb.35.00 -36.25
Betaine, anhyd., 10,000-lb. lots, frt. alld. lb. 3.00 - —
Hydrochloride, 5,000-lb. lots, frt. alld. lb. 1.60 - —
Monohydrate, 10,000-lb. lots, frt. alld. lb. 2.60 - —
Betagammapicoline (see b,g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical)
Biotin cryst., bots gram.10.00 - —
Biphenyl (see Diphenyl).

FORMULATORS EVERYWHERE...



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Manufacturing Chemists
RAHWAY, NEW JERSEY

MERCK

FIRST IN VITAMINS

Bismuth chloride, jars lb 5.11 - —
Hydroxide, dms. lb 4.65 - —
Metal, bxs., ton lots lb 2.25 - —
Nitrate, cryst., dms. lb. 2.10 - 2.17
Oxide, anhyd., dms lb 4.47 - 5.05
Oxychloride, dms lb 4.37 - 4.42
Phenolsulfonate, fib dms lb 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Bismuth subgallate, NF, fib. dms. lb. 3.15 - —
Subiodide, fib. dms lb 5.37 - —
Subnitrate, NF, dms lb 2.65 - —
Subsalicylate, USP, dms lb 3.50 - —
Bismuth-ammonium citrate, USP, powd., jars lb 4.22 - —
Bisphenol-A, c.l., t.l., frt. alld lb. 29¾ - —
l.c.l., same basis lb. 30¾ - —
Black, acetylene, imp., bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse lb. .22½ - .26
Ash (see Barium sulfide).
Bone, dms., l.c.l., frt. alld lb. .17 - .23¼

Pacific coast bone black prices 2c. per lb. higher.

Carbon, channel, pigment, high color beads, ctns., c.l., works. lb. .72 - —
t.c.l., dlvd or whse. lb. .78 - —
medium color, uncompressed, bgs., c.l., works. lb. .12 - —
t.c.l., dlvd or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs., c.l., works lb. .074 - —
l.c.l., works lb. .1225 - —

Black, carbon, furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb 10 - —
high abrasion, bulk, c.l., works. lb .0750 - —
bgs., c.l. works lb. .0790 - —
l.c.l., dlvd. or whse lb. .122 - .125
high modulus, bgs., c.l., works. lb. .0550 - —
ctns., l.c.l., whse lb. 0950 - —
semi-reinforcing bgs., c.l., works lb 045 - —
bgs., ctns., l.c.l., whse lb 065 - —
Charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works. lb. .13¼ - —
l.c.l., works lb. .13½ - —
Lamp, bgs., c.l., works lb. .16 - .45
Mineral, bgs., works lb. .0160 - .0675
Blackberry root bark, bls lb. .45 - —
Black haw root bark, bls lb. .63 - .65
tree bark, bls. lb. .40 - 45
Blanc fixe, dry, byproduct, bgs., c.l., works ton.190.00 - —
l.c.l., works ton.200.00 - —
direct process, bgs., c.l., works. ton.110.00 - —
l.c.l., works ton.120.00 - —
N. Y. whse ton.155.00 - —
Blood, dried, 16-16½% ammonia, unit-ton. 5.50 - —
high-grade, unground, 16-17% ammonia, bgs., Chicago. unit-ton. 5.75 - —

Blood, dried, soluble, bgs., c.l. lb. .13 - .14
t.l. lb. .15 - .17
l.t.l. lb. .15½ - .35½
Bloodroot, bls lb .48 - .50
Blue, alkali, dry, 250-lb. bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.10 - —
toner, 125-lb. bbls., litho flushed, same basis lb. 1.20 - —
Chinese, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —
Cobalt, genuine, bbls., same basis. lb. 4.90 - —
Imitation (see Blue, ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese Milori, Potash, Prussian and Soda).
Methyl, violet toner molybdated, PMA, bbls., same basis lb. 2.75 - —
tungstated, PTMA, bbls., same basis lb. 4.00 - 4.15
Milori, bbls., c.l., same basis lb. .50 - .55
l.c.l., ton lots, same basis lb. .51 - .56
smaller lots, same basis lb. .52 - .57
Peacock, fugitive, 100% color strength, bbls., same basis. lb. .85 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble soluble, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis lb. .51 - —
smaller lots, same basis lb. .52 - —

Blue, soda, CP, bronze, bbls., c.l., same basis lb. .50 - —
l.c.l., ton lots, same basis. lb. .51 - —
smaller lots, same basis. lb. .52 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½ - .35
jobbing types, bbls., same basis. lb. .19 - —
regular types, dry, bbls., same basis lb. .22½ - .35
Victoria toner, molybdated, PMA, bbls lb 4.10 - —
tungstated, PTMA, bbls lb. 5.35 - —

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1¼ c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher, Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

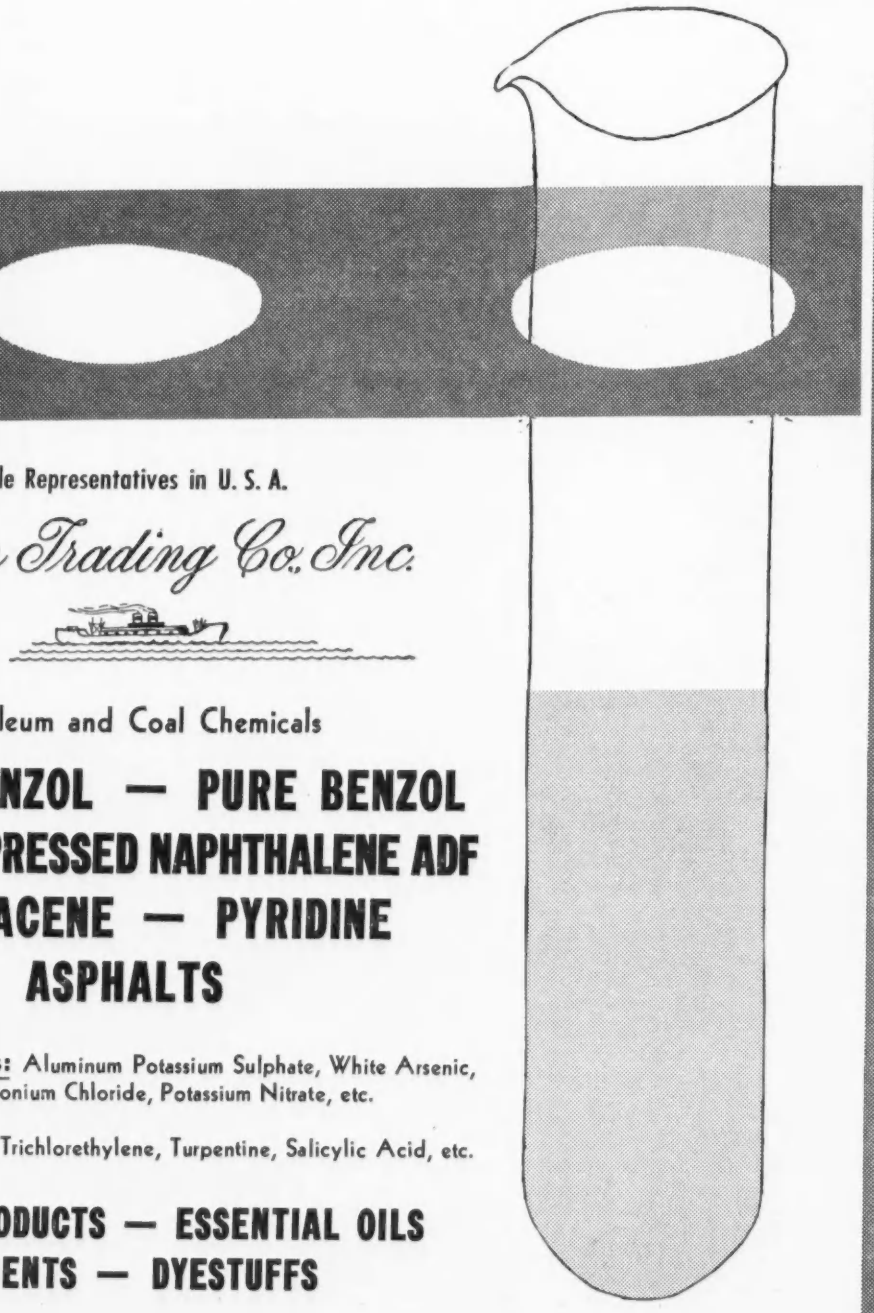
Vitriol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E ton.60.00 - —
Los Angeles ton 82 00
Bone phosphate defluorinated (see D) of lime (see Calcium phosphate, tribasic)
precipitated (see Calcium phosphate tribasic, NF precip.)
Borax, tech., anhyd., 99½%, bgs., c.l., works ton.80.50 —
ton lots, ex whse., N. Y. or Chicago ton.130.25 —
bulk, c.l., works ton.71.50 —
cryst., 99½%, bgs., c.l., works. ton.69.25 - —
ton lots, ex-whse., N. Y. or Chi ton.119.00 - —
smaller lots, same basis. ton.124.00 —
gran., decahydrate, 99½%, bgs., c.l., works ton.43.25 - —
ton lots, ex whse., N. Y., Chi ton.93.00 —
smaller lots, same basis. ton.98.00 - —
bulk, c.l., works ton.36.75 - —
pentahydrate, 99½%, bgs., c.l., works ton.57.75 - —
ton lots, ex whse., N.Y., Chi ton.107.50 —
smaller lots, same basis. ton.112.50 —
bulk, c.l., works ton.51.50 - —
powd., 99½%, bgs., c.l., works. ton.48.25 - —
ton lots, ex-whse., N. Y. or Chi ton.98.00 - —
smaller lots, same basis. ton.103.00 —

Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse, pt. lb. .18 - 24
l.c.l., same basis lb. .19 - .26
Borneol, cns lb. 2.50 - 4.5
Boron trifluoride gas, cyls., truckload, works lb. .62 - —
l.t.l., works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., t.l., dlvd. E. of Rockies lb. .32 - —
l.c.l., same basis lb. .34 - .39
ret. dms., c.l., t.l. dlvd E of Rockies lb. .31 - —
l.c.l., same basis lb. .31 - .33
tanks, same basis lb. .22½ - —
Bromochloromethane, dms., c.l., frt. equald lb. .48 - —
l.c.l., same basis lb. .50 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder aluminum (see A).
Brown, iron oxide, pure bgs., c.l., works lb. .14¼ - —
l.c.l., works lb. .14½ - —
Oxide, metallic, bgs., works lb. .04 - —
Sienna, burnt., paper bgs., c.l., works lb. .06¼ - .17¼
l.c.l., works lb. .06½ .17½
raw, paper bgs., c.l., works lb. .06¼ - .16¼
l.c.l., works lb. .06½ - .16½
Umber, burnt, American, c.l., works. lb. .07 - .07¾
l.c.l., works lb. .07¼ - .08
Turkey type, bgs., c.l., Boston, Bethlehem, Easton, Pa., Hiwassee, Va., N. Y lb. .07¾ - —
raw, American, bgs., works lb. .07½ - .08¼
Turkey-type, bgs., works lb. .06¾ - .07
Vandyke, bbls., works lb. .09½ - .12
Brucine, cns., 100-oz. lots oz. .20 - .25
Sulfate, NF cns., 100-oz. lots oz. .15 - .20
Buchu leaves, bls lb. 1.30 - —
Butadiene, refd., cyls., c.l. refy lb. .21 - —
l.c.l., refy. lb. .22 - —
tanks, refy lb. .15 - —
Butane, indust., tanks, group 3 gal. .04½ - —
N. Y. harbor gal. .08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .13½ - —
syn., dms., c.l., dlvd. E lb. .16 - —
l.c.l., same basis lb. .17 - —
tanks, same basis lb. .13½ - —
sec-Butyl acetate, syn., dms., c.l., dlvd. E lb. .13 - —
l.c.l., same basis lb. .13¾ - —
tanks, same basis lb. .11¼ - —
Butyl alcohol (see Alcohol, n-Butyl).
Aldehyde (see Butyraldehyde).
Chloride, dms., c.l., works lb. .37½ - —
l.c.l., works lb. .38¼ - —
Ether, dms., c.l., works lb. .33 - —
l.c.l., works lb. .33¾ - —
tanks, works lb. .31 - —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .42½ - —
l.c.l., same basis lb. .43½ - —
tanks, same basis lb. .40 - —
Laurate, dms., works lb. .39 - —
Methacrylate, dms., c.l., t.l., works. lb. .55 - —
l.c.l., works lb. .55½ - —
Oleate, refd., dms., l.c.l., works lb. .32 - —
Phenylacetate, dms. lb. 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms., c.l., frt. equald, l.c.l., same basis lb. .26 - —
Butylamine (see mono-, di-, and tri-). lb. .25 - —
6-tert-Butyl-m-cresol, dms., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
tanks, works lb. .54 - —
Butylated hydroxytoluene (see 2,6-Di-tert-butyl-p-cresol).
p-tert-Butylphenol, bgs., c.l., works. lb. .27½ - —
l.c.l. lb. .28½ - —
Butyraldehyde, dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd lb. .23 - —
tanks, dlvd lb. 19½ - —
Butyric ether (see Ethyl butyrate).

Sole Representatives in U. S. A.

Kolon Trading Co. Inc.



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Organic Chemicals: Trichlorethylene, Turpentine, Salicylic Acid, etc.

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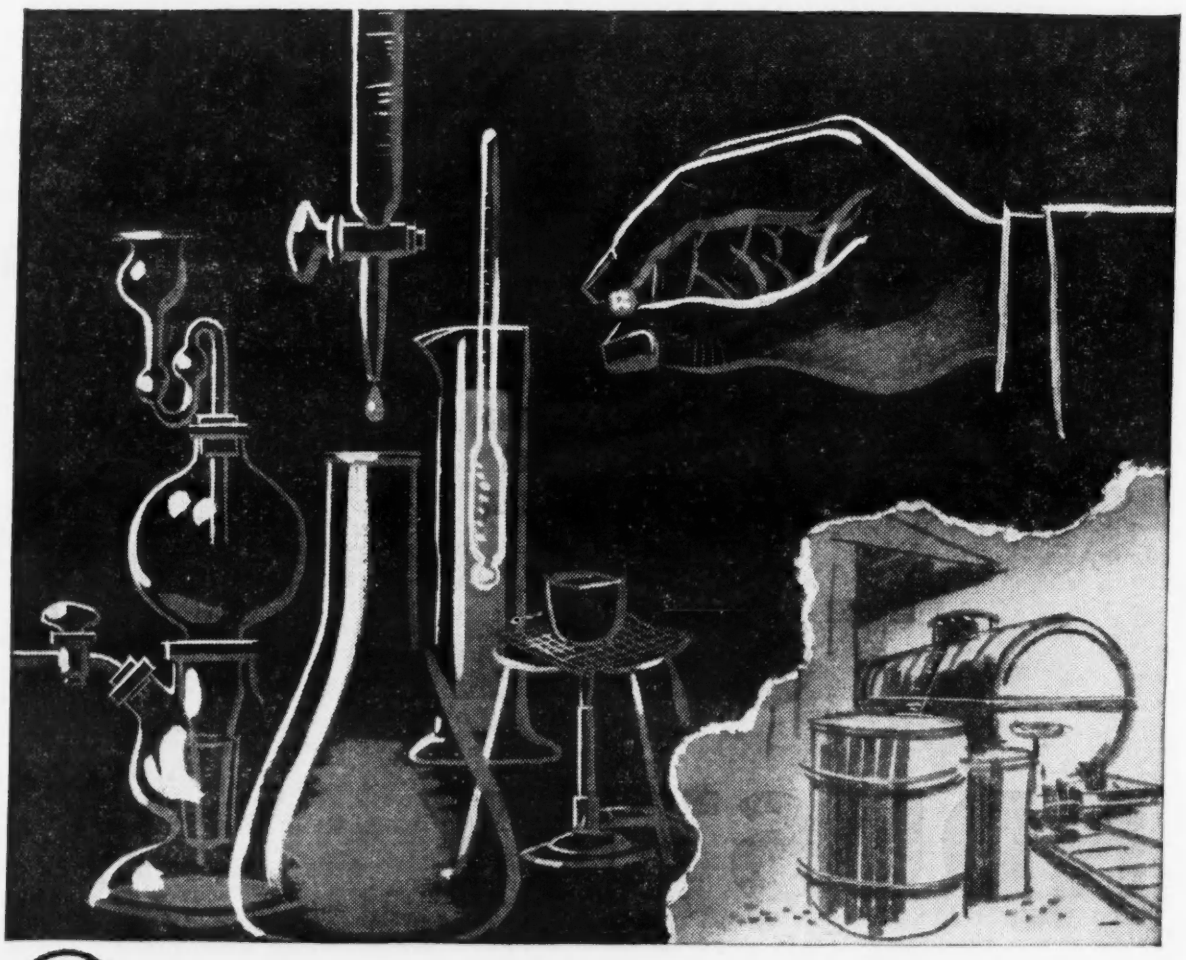
Cacao Butter—Charcoal

C

Cacao butter (see Cocoa butter).
Cadmium iodide, 25-lb. fib. dms. lb. 6.75 - 7.00
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, dms., 100-lib. lots or more lb 2.80 - —
syn., cryst., anyhd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, 100-lb lots or more lb 2.80 - —
Citrated, USP, dms., 100-lb. lots or more lb 2.70 - —
Calamine, USP dms lb .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram. .60 - —
25 to 100 gram lots, works, gram .65 - —
(in edible oil (see Viosterol)
Calcium p-aminosalicylate, fib. dms., 100 lbs. or more, frt. adjusted. lb. 4.00 - —
Arsenate, dealers, bgs., c.l., frt. alld lb. .09 - .09½
l.c.l., same basis lb. .10 - .10½
Bromide, NF, 100 lbs. or more lb. .92 - —
Carbide, standard generator size, dms., c.l., dlvd ton.134.40 - —
Calcium carbonate, nat., dry-grd., air floated,, 325 mesh, bgs., c.l., works ton.10.50 - —
chalk, whiting, 325 mesh, bgs., works ton 32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton 17.00 -18.00
precip., dense, bgs., c.l., works. ton.32.50 - —
l.c.l., works ton.42.50 - —
medium, bgs., c.l., works ton.38.00 - —
l.c.l., works ton.48.00 - —
surface treated, bgs., c.l., works ton.37.50 - —
l.c.l., works ton.47.50 - —
ultrafine, bgs., c.l., works. ton.110.00 -160.00
l.c.l., works ton.120.00 -175.00
Chloride, cryst., purif., dms lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.29.00 - —
liquor, 40%, tanks, frt. equald.ton.12.35- —
pellets, bgs., c.l., works ton.35.40 - —
powd., bgs., c.l., works ton.35.00 - —
solid, 73-75%, dms., c.l., frt. equald ton.27.50 - —
l.c.l., works, frt. equald. ton.34.00 -71.00
USP, gran., dms. lb. .32 - —
Chromate, bgs., frt., equald lb. .29½- .30
Cyanide, dms., c.l., dlvd. E. of Rockies lb. .20 - —
l.c.l., same basis lb. .24 - .55
Cyclamate, 100-lb. fib. dms. lb. 2.95 - —
Calcium gluconate, AA, bbls., dms. lb. .74 - .76
USP, bbls., dms lb. .67 - .69
Hydride, dms., works lb. 2.15 - 3.00
Hypochlorite, high test, 45-lb., cs., dlvd. E of Rockies cs.22.60 -24.75
100-lb. dms., same basis dm.28.65 -32.50
Hypophosphite, dms., ton lots ar less lb. .90 - .93
frt. equald lb. .27¼- —
Iodide, jars lb. 4.52 - —
Lactate, NF, dms., 10,000-lb. lots or more, works lb. .36 - .40
Mandelate, USP, dms., works lb. 2.10 - 2.25
smaller lots, works lb. .41 - .48
Naphthenate liq., 4% Ca., dms.,
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton.46.00 - —
tech., 5-dm. lots, works lb. .13 - —
Pantothenate, dms., bots., frt. adjusted gram. .045 - —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Phosphate, dibasic, USP, bgs., c.l., frt. equald 100 lbs. 7.75 - —
l.c.l., frt. equald 100 lbs. 8.50 - —
feed grade, 18½%P, bgs., c.l., t.l., frt. equald ton.79.55 -83.25
l.c.l., frt. equald ton.89.55 -93.25
21% P, bgs., c.l., t.l., frt. equald ton.94.50 - —
l.c.l., frt. equald ton.99.50 -104.50
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 6.90 - —
smaller lots, same basis, 100 lbs. 7.40 - —
tribasic, NF, precip., bgs., c.l., works, frt. equald 100 lbs. 8.75 - —
l.c.l., frt. equald 100 lbs. 9.00 - —
Phytate, bgs., works lb. .50 - —
Resinate, precip., dms., frt. alld., works lb. .30½- —
Calcium silicate, hydrated, bgs., c.l., works lb. .06 - —
l.c.l., works lb. 06½- —
paint grade (see Wollastonite).
Stearate, ctns., c.l. lb. .37 - —
l.c.l. lb. .39 - .42
Sulfate (see Gypsum).
Calomel, USP, powd., dms. lb. .42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .15 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .12½- —
Chlorinated, 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb. 3.55 - —
nat. USP, powd., cs., 100-lb. lots. lb. .60 - .65
tablets, 1-oz., ½-oz. cs. lb. .85 - .90
syn., tech., 1 bbl. or more lb. .48 - —
USP, gran., powd., bbls., 2,000-lb. lots lb. .59 - —
1,000-lb. lots lb. .60 - —
smaller lots lb. .61 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs lb. 2.00 - 2.05
powd., bxs lb. 2.25 - 2.30
Russian, bgs lb. 4.00 - 4.05
powd., bxs lb. 4.35 - 4.40
Capsicum (see Pepper red).
Oleoresin, NF, from domestic pepper, dms lb. 4.50 - 5.25
from African pepper, dms lb. 4.35 - 5.00
Caraway seed, Dutch, bgs. lb. .17 - —
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbon black (see Black, Carbon).
Dioxide, indust., wholesale, bulk, dlvd. Metrolopitan area ton.73.00 -115.00
ton.73.00 -115.00
cyls., same basis lb. .08 - .09
solid, same basis lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. equald. to competitive points lb. .07 - —
l.c.l., same basis lb. .08½- .09
5-gal. dms., 30 dms. to c.l., same basis lb. .13 - —
less than 30 dms lb. .16 - —
tanks, dlvd. lb. .0545- —
Tetrachloride, CP, consumers, dms., l.c.l., frt. alld lb. .12¼- .14½
tech., consumers, dms., c.l., frt. alld lb. .11¼- —
l.c.l., frt. alld lb. .13½- —
tanks, frt. alld lb. .10 - —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb. 4.00 - 4.25
smaller lots, works lb. 4.10 - 4.75
Cardamom seed, bleached, "A" lb. 3.20 - —
"B" lb. 3.10 - —
decorticated, Guatemalan, cs lb. 2.85 - —
Guatemalan, cs. lb. 2.85 - —
green, Ceylon, bgs. lb. 2.05 - —
Alleppey, bgs. lb. 2.05 - —
Carmine, No. 40, NF, bulk, 100-lb. lots or more, dlvd lb.14.40 - —
smaller lots, dlvd lb.14.50 -15.20
Carotene, tech., 1,350,000 A units per gram, tins, 5-10 kilo lots, dlvd gram. .295 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works million units. .12 - —
microcrystalline in oil, 400,000 A units per gram, dms., dlvd. million units. .21 - —
b-Carotene, pure, crystalline, 1,600,000 A units to 1,670,000 per gram., cns gram. .35 - —
in vegetable oil, 400,000 A units per gram, cns. gram. .084 - —
Carvol, bots lb. 4.50 - 8.00
Cascara sagrada bark, bulk lb. .33 - —
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb. .32 Nom.
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .38 Nom.
Imp., acid-precip., grd., Argentine, bgs., c.l., duty paid lb. .22 - .23
New Zealand, duty paid lb. .24 - .25
Cashewnut shell liquid, treated, dms., c.l., Newark, N. J lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same nasis lb. .25 - —
Cassia, Batavia, "A," bls. lb. .22 - —
"B" lb. .21 - —
"C" lb. .20 - —
Corinje "A" lb. .22 - —
"B" lb. .21 - —
"C" lb. .20 - —
Castor beans, bgs., f.o.b. Brazil ton.155.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton.35.00 -40.00
Castoreum, nat., cns lb. 5.25 -30.00
syn., cns lb. 9.00 - —
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls lb. .75 - —
elery seed, French, bgs. lb. .41 - —
Indian, bgs. lb. .19 - —
Cellulose acetate, flake, powd., ctns., bgs., 100-lb. lots or more, dlvd. E lb. .35 - .46
Acetate-butyrate, powd., 17% butyryl content, bgs., dlvd. E. lb. .545 - .555
27% butyryl content, bgs., dlvd. E lb. .595 - .605
38% butyryl content, bgs., dlvd. E lb. .545 - .555
50% butyryl content, bgs., dlvd E lb. .585 - .595
half-second, bgs., dlvd. E. lb. .545 - .555
Scrap (see Pyroxylin scrap).
Cerium chloride, dms., dlvd. lb. .35 - —
Hydrate, 74% CeO_2, fib. dms., 100-lb. lots or mare lb. 1.44 - —
77% CeO_2, fib. dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bgs., works lb. 1.00 - —
Oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb. 1.85 - 1.98
smaller lots, dlvd lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .78 - —
Roman, cs. lb. 2.00 - —
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26¼- .32¼
smaller lots, works lb. .27 - .50
Bone (see Black, bone).
Hardwood, bulk, lump, c.l., f.o.b. plant ton.55.00 - —
briquets, bulk, c.l., f.o.b. plant. ton.75.00 -80.00
5 lb. paper bags, c.l., same basis ton.108.00 - —
10 lb. paper bags, c.l., same basis ton. 95.00 -98.00
25 lb. paper bags, c.l., same basis ton. 82.00 -88.00
40-lb. paper bgs., c.l., same basis ton.81.00 -85.00



Quality in chemicals is a lot of little things

The drop at the end of a burette--a specific gravity reading--a crystal under the microscope, or the weight of ash in a crucible--these are a few of the little things that add up to the final quality in an industrial chemical.

It is the constant attention to such control details that has given Heyden Organic Chemicals their high standards of quality and dependability through more than 50 years of service to industry and research.

Heyden Organic Chemicals--through continuing research and advanced manufacturing methods--have grown steadily in number, volume and applications. They comprise both aliphatics and aromatics, including large volume basic raw materials for many major fields --surface coatings, drugs and cosmetics, textiles, plastics and dyestuffs--and other organic intermediates.

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Benzaldehyde • Benzoic Acids • Benzyl Chloride • Beta-Oxynaphthoic Acid • Chlorotoluenes • Creosotes • Formaldehyde • Formic Acid • Guaiacols
Parahydroxybenzoates • Pentacrythritols • Propyl Gallate • Resorcinol • Salicylates • Salicylic Acid • Sodium Benzoate • Sodium Formate

Charcoal, pinewood, gran., bgs., c.l., works, South ton 57.00 - —
l.c.l., works, South ton 57 00 -67 00
lump, bgs., c.l., works, South ton 53.50 —
l.c.l., works, South ton 56.50 -71 00
bulk, c.l., works, South ton 38 00 —
l.l., works, South ton 41 00 - —
Chestnut extract, Italian, solid, 60% tannin, bgs., exdock, plus duty lb. .09½- —
powd., 70% tannin, bgs., exdock, plus duty lb. .10⅝- —
Chloral, tech. 94% min. dms., c.l., works lb. .23 - —
l.c.l., works lb. .24 - —
tanks, multiple units, 5 cars, works lb. .21 - —
Hydrate, USP 40-lb jars, 1,000 lb. lots lb. 1.00 - —
500-lb lots lb 1.03 —
100-lb lots or less lb 1.05 —
Chloramine T, NF, bbls, works lb 75 1.00
Chlordan agricultural, dms., c.a., frt alld lb 65 —
l.c.l. 5,000 to 10,000-lb. lots, frt alld lb. 66 —
clarif., dms., c.l., frt alld lb. 69 —
l.c.l. 5,000 to 10,000-lb. lots, frt alld lb. 70 —
Chlorinated paraffin, 42%, dms., c.l., frt. alld lb. .16¼- —
l.c.l., same basis lb. .17¼- —
70%, dms., c.l., same basis lb. .18¾- —
l.c.l., same basis lb. .19¾- —
Rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps ctns c.l works lb. .65 - —
l.c.l. works lb. .66 - —
Chlorine, liq. cyls c.l., works, frt. equald lb. .10¼- —
l.c.l. Metropolitan area lb. .11¾ .13
tanks, single units, works, frt. equald 100 lbs. 3.15 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 4.05 - —
3 cars, same basis 100 lbs. 4.25 - —
2 cars, same basis 100 lbs. 5.25 - —
1 car, same basis 100 lbs. 7.25 - —
4-Chloro-2 aminotoluene, fused, bbls. lb. 1.45 - —
m-Chloroaniline, dms., min. 10,000 lbs. or over, frt. alld lb. 75 - —
less than 10,000 lbs., same basis. lb. 80 - —
tanks, same basis lb. 73 - —
o-Chloroaniline, dms., c.l., frt. alld. lb. .65 - —
l.c.l., same basis lb. .67 - —
tanks, same basis lb. .63 - —
p-Chloroaniline, dms c.l., frt. alld. lb. .77 - —
l.c.l., same basis lb. .79 - —
o-Chlorobenzaldehyde, dms., t.l., works lb. 1.05 - —
l.t.l., works lb. 1.20 - —
p-Chlorobenzaldehyde, dms., c.l., works lb. 1.95 - —
Chloroform, tech. dms., c.l., dlvd. E lb. .18 - —
l.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms lb. .30 - —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .81 - —
powd. dlvd E. 100% basis lb. .86 - —
4-Chloro-2-nitroaniline powd. dlvd. E lb. .80 - —
o-Chlorophenol dms. c.l. frt. equald. lb. .37 - —
l.c.l., same basis lb. .38 - —
p-Chlorophenol, dms., c.l., frt. equald lb. .37 - —
l.c.l., same basis lb. .38 - —
Chloropicrin, coml., bots lb. 1.50 - —
cyls., 180 lbs., frt. alld lb. .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb. 1.22 - —
Choline bitartrate, fib. dms., frt. adjusted lb. 1.25 - 1.35
Chloride, fib. dms., frt. adjusted. lb. 1.25 - 1.35
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.25 - 1.35
Chromium acetate, soln., 7½%, bbls., works lb. .09½- —
cbys., works lb. .11¼- —
Fluoride, bbls., works lb. .51 - .52
Green (see Green, chrome).
Oxide (see Green chromium oxide)
Trioxide, NF, bots lb. .82 - .89
Yellow (see Yelow chrome).
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
yellow, broken, bgs lb. .35 - .40
Cinchonidine, cryst. cns., 100-oz. lots. oz. .65 - —
Sulfate, cns., 100-oz. lots oz. .35 - —
Cinchonine, cryst., cns., 100-oz. lots. oz. .52 - .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, cns., dms lb. .95 - 1.25
Cinnamon, Ceylon, No. 2, bgs lb. .90 - .91
"0000" bgs, afloat lb. 1.06 - 1.07
Citral, bots., cns lb. 4.90 - 5.90
Citronellal, bots., dms lb. 2.85 - 3.50
Citronellol, bots., dms. lb. 4.30 - 4.60
Civet, artif, bots lb. 13.75 -15.00
nat., bots oz. 8.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn ton. 19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton. 10.00 - —
purif., bgs., c.l., Tenn ton. 20.50 - —
imp., airfloated, bgs., c.l., Atl. port long-ton. 42.00 -45.00
lump, bulk, Atl. port long-ton. 27.00 -30.20
China, dom., dry-grd., airfloat, 99% 325 mesh, bgs., c.l., Georgia, works ton. 10.00 - —
l.c.l., Georgia, works ton. 15.50 - —
300 mesh., bgs., c.l., Georgia, works ton. 13.50 -14.50
l.c.l., Georgia works ton. 35.00 -36.00
imp., white, lump, bulk, c.l., exdock, Phila., Portland, Me. gross ton. 20.00 -35.00
powd., bgs., c.l., ex dock net ton. 50.00 - —
l.c.l., ex whse net ton. 60.00 -65.00
Clove, Madagascar, bgs. lb. .43 - —
Zanzibar, bgs. lb. .47 - —
CMC, crude, 96%, low or medium vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis lb. .39½- .41
less than 23,000 lbs., dlvd. E., 100% basis lb. .41½- .43
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .39½- .41
l.c.l. dlvd. E., 100% basis. lb. .41½- .43
purif., high vis. (see Gum Cellulose).
Standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
CMC prices W. of the Rockies are 2c. per lb lower and are on a works basis.

Coaltar, crude, resale for solns., dms., c.l., ex-whse gal. .255 - —
l.c.l., ex-whse gal. .275 - —
tanks, ex works gal. .155 .159
refd., resale, dms., c.l., ex-whse. gal. .2650- .32
l.c.l., ex-whse gal. .2350- .34
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, dms., dlvd. lb. 1.20 - —
Carbonate, 46% powd., bgs., dlvd. lb. 1.85 - —
Chloride, 24.2% Co. dms., dlvd. lb. 1.20 - —
Hydrate, 60-61% Co., dms., dlvd lb. 2.62 - —
Lineoleate, fused, 8½% Co., dms lb. .75¾- —
liq., 6% Co., dms lb. .61 - —
Metal, 97-99%, kgs., ex whse lb. 2.60 - —
Naphtenate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co., bbls., dlvd. lb. 1.00 - —
Oxide, black, 72½-73½% Co., kgs lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Resinate, fused, 3% Co., dms. lb. .29¾- —
Sulfate cryst., 21% Co., dms., dlvd lb. .79 - —
monohydrated, 33% Co., dms., dlvd lb. 1.32 - —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. tots oz. 17.80 - —
Hydrochloride, cns., 100-oz. lots. oz. 13.75 - —
Cocilana bark, bls. lb. .25 - —
Cocoa butter, bgs. lb. .48½- .51

Codeine, NF, cns., 100-oz. lots oz. 13.25 - —
Hydrochloride, cns., 100-oz. lots. oz. 11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz. 10.25 - —
Sulfate, USP, cns., 100-oz. lots oz. 10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls lb. .20 - .22
blue, bls lb. .20 - .22
Colchicine, USP, bots., cns. oz. 33.50 -40.00
Colchicum root, bls lb. .35 - —
seed, bgs lb. .60 - —
Collodion, USP, dms lb. .32½- —
flexible, dms lb. .34 - —
Colocynth, pulp, bls lb. .55 - —
Colombo root, bls lb. .15 - .16
Condurango bark, bales lb. .26 - —
Copaiba balsam, cns., dms lb. .85 - —
Copper acetate, bbls., c.l., works lb. .53 - —
l.c.l., works lb. .54 - —
Carbonate, 55%, bgs., c.l., works. lb. .3775- —
l.c.l., works lb. .3925- —
Chloride, anhyd., dms., works lb. .47½- .47¾
cryst., dihydrate, dms., works. lb. .32¼- .32¾
dried, dms., works lb. .40½- .41
Cyanide, tech., bbls. 20,000-lb. lots or more lb. .77½- —
1,000-lb. lots or more lb. .78½- —
smaller lots lb. .80½- —
Gluconate, dms lb. 3.15 3.35
Hydrate, dms., c.l., frt. alld. E. of Miss lb. .57 - —
l.c.l., same basis lb. .57½- —

Copper, metal, electrolytic, dlvd., Valley basis lb. .40 - —
Naphthenate, liq., 8% Cu. dms., frt. alld lb. .24½- —
Nitrate, tech., cryst., bbls., works. lb. .33¼- —
Oleate, solid, 9% Cn dms., works lb. .45 - —
Oxide, black, bbls., 100-2,000-lb. lots, works lb. .54 - —
red, 97%, USN Type I, bbls., 100-5,000 lb. lots lb. .64½- —
90%, USN Type II, bbls., 100-5,000 lots or more, works. lb. .62½- —
Oxychloride, dms., c.l., works lb. .53 - —
l.c.l., works lb. .53½- .63¼
Quinolinolate, fib. dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld. lb. .31½- —
Sulfate, CP, gran., bbls., works lb. .2210- —
cryst., 99%, bgs., c.l., works. 100 lbs. 15.20 - —
l.c.l., same basis 100 lbs. 15.70 -18.20
monohydrated, 35%, dms., c.l., works 100 lbs. 25.00 - —
l.c.l., works 100 lbs. 25.75 - —
tribasic, dealers, bgs., c.l., works, frt. equald 100 lbs. 32.65 - —
l.c.l., same basis 100 lbs. 33.65 -36.65
Undecylenate, dms lb. 2.90 3.00
Copra, Atlantic, Gulf ports, c.i.f. ton. 155.00 - —
Pacific Ports, c.i.f. ton. 150.00 - —

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...Hydroxylamine salts* may apply in your field

For synthesis— Hydroxylamine salts may be used to make oximes, hydroxamic acids, and numerous intermediates. They are useful for preparation of anti-skinning agents, anti-rusting agents, and pharmaceuticals.

As acid-stable reducing agents— For metallic ions such as ferric, cupric, silver, and for nonmetallics such as dyes, peroxides, and nitrites. These compounds are useful in purification processes, dyeing of acrylic fibers and as a short-stopper for catalyzed polymerization reactions.

As oxidizing agents— This is new territory that needs exploring. Hydroxylamine salts are probably mild oxidizing agents.

Effects on proteins and biological systems— Hydroxylamine salts inhibit enzymes such as catalase, harden gelatine . . . derivatives are good fungicides and bactericides. For the most part, this is a poorly explored area suitable for intensive experimentation.

*Hydroxylammonium Acid Sulfate $NH_3OH \cdot H_2SO_4$
Hydroxylammonium Sulfate $(NH_2OH)_2 \cdot H_2SO_4$
Hydroxylammonium Chloride $NH_3OH \cdot HCl$

Already known for their wide range of utility, these nitroparaffin derivatives may find dramatic uses from future research. Their potential applications for experimentation are almost unlimited.

For more details on these and other uses for Hydroxylamine salts, mail the coupon below.

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Please send me data sheets #19 and #19A for information on Hydroxylamine salts.

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Street _____
City _____ Zone _____ State _____

Coriander Seed—N,N-Diethylaniline

Coriander seed, Moroccan, bgs. lb. .12 - —
Roumanian, bgs. lb. .09 - .09½
Yugoslavian, bgs. lb. .08½- —
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs. 7.26 - —
l.c.l. 100 lbs. 7.51 - —
Syrup, 42°, non-ret. dms., c.l. 100 lbs. 7.34 - —
l.c.l. lb. 7.49 - —
Corrosive sublimate (see Mercuric chloride).
Cortisone acetate, NNR, bulk gram 3.50 3.55
Cottonseed meal, expeller, 41% bgs., bgs, Memphis ton.53.00 -54.00
solvents, same basis ton.53.00 -54.00
Cramp bark, NF bls lb. 85 .91
Coumarin, NF, cryst., dms lb. 3.60 - —
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF bots, cbys. lb 3.05 3.26
Coaltar crude, tanks, works, frt. adjusted gal. .22 —
soln 80%, tanks, works gal. .2068- —
refd., dms., c.l., works gal. .42 - .44
l.c.l., same basis gal. .53 - .55
tanks, same basis gal. .33 - .35
Wood, beachwood, cbys., dms lb. 1.60 - 1.65
hardwood, NF, bots, cbys lb 1.30 1.35
pinewood, dms., c.l., incl lb .0561 - —
l.c.l., incl lb. .0634- —
N. Y. whse lb. .0745- —
tanks, works lb. .0460- —

Cresol, tech., 50% below 204°C., dry above 207°C., wide distillation range, non-ret. dms., c.l., frt. equald lb. .1625- —
l.c.l., same basis lb. .1675- —
tanks, same basis lb .145 —
USP, non-ret. dms., c.l., same basis lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
m-Cresol, 95-98% dms., c.l., works. lb .60 - —
l.c.l. works lb. .61 - —
m-p-Cresol, 5-55%, 3°C., dms., c.l., frt. equald lb. .1775- —
l.c.l., same basis lb. .1825- —
tanks, same basis lb. .160 - —
2-97%, 2°C., dms., c.l., frt. equald. lb. .2175- —
l.c.l., same basis lb. .2225- —
tanks, same basis lb. .200 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .16¾- .17¾
l.c.l., same basis lb. .17¼- .18¼
tanks, same basis lb. .15 - .16
29°C., ret., dms., c.l., frt. equald. lb. .15¾- .16
l.c.l., same basis lb. .16¼- .16½
tanks, same basis lb. .14 - .15
25-29°C., dms., c.l., frt. equald. lb. .14¾- .15¾
l.c.l., same basis lb. .15¼- .16¼
tanks, same basis lb. .13 - .14
p-Cresol, 98% dms., c.l., dlvd lb. .50 - —
l.c.l., dlvd lb. .51 - —
tanks, dlvd lb. .49 - —
Methyl ether, cns lb. 1.80 - 2.05

Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼- .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs.13.00 - —
l.c.l., works 100 lbs.14.25 - —
insecticide, dealers, bgs., c.l., dlvd 100 lbs.16.75 - —
l.c.l., dlvd 100 lbs.17.75 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .29 - —
Cubeb berries, XX, NF, bgs. lb. .70 - —
powd., cs lb. .85 - —
Cumene, dms., c.l., works lb. .12 - —
t.c.l., works lb. .14 - —
tanks, works lb. .11 - —
l.c.l., works lb. .30 - —
Cumin seed, Iranian, bgs. lb. .13½- .14
Moroccan, bgs. lb. .21 - .23
Turkish, bgs. lb. N.P.
Cutch extract, 55% tannin, bgs., ex dock, duty extra lb. .08½- —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton.55.00 - —
pulv., 21% N, bgs., works, unit-ton. 2.75 - —
indust. grade, c.l., works ton.75.00 - —
l.c.l., bgs., works ton.96.00 - —
6-16 mesh, dms, c.l., works ton.120.00 - —
l.c.l., works ton.140.00 - —
Cyclohexane, 99% tech., dms., c.l., works gal. .70 - —
l.c.l., works gal. .72 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28 - —
l.c.l., works, same basis lb. .29 - —
tanks, works, same basis lb. .24 - —
Cyclohexanone, tech., dms., c.l., works lb. .32½- —
l.c.l., works lb. .35 - —
tanks, works lb. .29 - —

Cyclohexene, min. 98%, b.r. 82.5°C-85°C, 360-lb. dms., c.l., works lb. .85 - —
l.c.l., same basis lb. .60 - —
tanks, same basis lb. .52 - —
Cyclohexylamine, dms., c.l., works. lb. .46½- —
l.c.l., works lb. .48½- —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works. cyl.48.00 - —
6 oz. cyls., works cyl.12.00 - —
USP, hospitals, cyls., 40-gal. lots, gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2-4-D, tech., dms., c.l., works, frt. equald lb. .37 - —
l.c.l., same basis lb. .42 - .46
Butyl ester, dms., c.l., works. lb. .40 - —
l.c.l., same basis lb. .45 - .49
tanks, same basis lb. .39 - —
Isopropyl ester, dms., c.l., works. lb. .40 - —
l.c.l., works lb. .45 - .49
tanks, works lb. .39 - —
Dandelion root, bls lb. .32 - —
DDD, tech., flake, grd. fib. dms., c.l., works lb. .45 - —
t.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .23 - .27
smaller lots, same basis lb. .24 - .28
fib. dms., c.l., same basis lb. .24 - .28
smaller lots, same basis lb. .25 - .29
1-Decanol, tech., dms., c.l., dlvd lb. .41 - —
l.c.l., dlvd. lb. .43 - —
tanks, dlvd lb. .38½- —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton.49.50 - —
17%P paper bgs., c.l., t.l. works ton.58.00 - —
18% P, paper bgs., c.l., t.l. works ton.64.10 - —
Prices of defluorinated phosphate in bulk $3 per ton less than bag carlot prices.
Degras, neutral, bbls lb. .10 - .18
d-Desoxyephedrine hydrochloride, bots lb.24.00 -25.00
dl, bots lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 9.28 - —
l.c.l. 100 lbs. 9.43 - —
canary, dark, paper bgs., c.l. 100 lbs. 9.12 - —
l.c.l. 100 lbs. 9.27 - —
light, paper bgs., c.l. 100 lbs. 9.02 - —
l.c.l. 100 lbs. 9.17 - —
white, paper bgs., c.l. 100 lbs. 8.86 - —
l.c.l. 100 lbs. 9.01 - —
Corn dextrin in cotton bgs. 15c. per 100 lbs. higher.
Potato, imported, bgs lb. .10½- .11
Dextrose, USP, dms lb. .17¾- —
Diacetone (see Alcohol diacetone).
Diacetyl, flavor grade, bots lb. 4.25 - 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
Di-tert-amyl phenol, dms., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
tanks, works lb. .29½- —
o-Dianisidine, fib. dms lb. 2.00 —
Dibenzyl sebacate, dms., c.l., works. lb. .89¾- .90
l.c.l., same basis lb. .90¼- .91
tanks, same basis lb. .88 - —
p-Dibromobenzene, bgs., 500-lb. lots. lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .32½- —
l.c.l., same basis lb. .33½- —
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works lb. .66 - —
l.c.l., works lb. .66¼- .67
tanks, works, dlvd lb. .64 - .64¼
Tartrate, dms, works, frt. alld lb. .64 - —
Dibutylamine, dms., c.l., dlvd lb. .55½- —
l.c.l., same basis lb. .56½- —
tanks, same basis lb. .53 - —
2,6-Di-tert-butyl-p-cresol, food grade, dms., t.l., c.l., dlvd lb. 1.20 - —
l.t.l., dlvd lb. 1.24 - —
tech., dms., c.l. lb. .91 - 1.00
l.c.l. lb. .95 - 1.04
tanks lb. .86 - .95
Dicaprvl phthalate, dms, c.l., dlvd., lb. .31 - .32
l.c.l., dlvd lb. .32 - .33
tanks, dlvd lb. .29½- —
Sebacate, dms., c.l., works lb. .63 - —
l.c.l., works lb. .63½- .64
tanks, works lb. .61 - —
2,5-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms, c.l., frt. alld. E lb. .12¼- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .14½- —
l.c.l., same basis lb. .17 - —
1,4-Dichlorobutane, dms., c.l. or t.l., works lb. .33½- —
l.c.l., or l.t.l., works lb. .34 - —
tanks, works lb. .32 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works lb. .06 - —
tanks, works lb. .03 - —
Dicyclohexylamine, dms., c.l., works. lb. .51 - —
l.c.l., works lb. .51¾- —
tanks, works lb. 49½- —
Dicyclohexyl phthalate, fib. dms., c.l., works, frt. alld. lb. .58¼- .59
l.c.l., same basis lb. .59¼- .60
Didecyl phthalate, dms., c.l., works. lb. .34 - —
l.c.l., same basis lb. .35 - —
tanks, same basis lb. .31½- —
Dieldrin, dms., frt. alld. lb. 1.80 - —
l.c.l., frt. alld. lb. 1.85 - —
Diethanolamine, dms., c.l., dlvd. E. lb. .27 - —
l.c.l., same basis lb. .28 - —
tanks, same basis lb. .24½- —
Diethyl carbonate, dms., c.l., t.l., alld lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks, same basis lb. .45 - —
Ethanolamines, dms., c.l., dlvd. lb. .69½- —
l.c.l., dlvd lb. .70½- —
tanks, dlvd lb .67 - —
Oxalate, dms., c.l., frt. alld. lb. .42 - —
l.c.l., same basis lb. .43 - .45
tanks same basis lb. .40 - —
Phthalate, dms., c.l., dlvd lb. .29½- .30
l.c.l., dlvd lb. .30½- .31
tanks, dlvd lb. .27 - .27½
Sulfate, dms., c.l., works lb. .19 - —
l.c.l., works lb. .19¾- —
tanks, works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E. lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .48½- —
N,N-Diethylaniline, dms., c.l., frt. alld. lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .50 - —

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Di-2-ethylhexyl adipate (see Dioctyl adipate).			
Phthalate (see Dioctyl phthalate).			
Diethylene glycol, dms., c.l., dlvd. E.	lb.	.17¾	—
l.c.l., same basis	lb.	.18¾	—
tanks, same basis	lb.	.15¼	—
Boriborate, dms. l.c.l.	lb.	.31	—
Diethyl ether, dms., c.l., works.	lb.	.47½	—
l.c.l., works	lb.	.48¼	—
Monobutyl ether, dms., c.l., dlvd. E	lb.	.30¾	—
l.c.l., dlvd. E	lb.	.31¾	—
tanks, dlvd. E	lb.	.28¼	—
Acetate, dms., c.l., works	lb.	.30¼	—
l.c.l., works	lb.	.31	—
tanks, dlvd E	lb.	.28¼	—
Monoethyl ether, dms., c.l., dlvd	lb.	.22½	—
l.c.l., dlvd	lb.	.23½	—
tanks, dlvd	lb.	.20	—
Acetate, dms., c.l., works	lb.	.27¼	—
l.c.l., works	lb.	.28	—
tanks, dlvd E	lb.	.25¼	—
Monomethyl ether dms., c.l., dlvd	lb.	.20½	—
l.c.l., dlvd	lb.	.21½	—
tanks, dlvd	lb.	.18½	—
Diethylenetriamine, dms., c.l., dlvd. E	lb.	.44	—
l.c.l., dlvd. E	lb.	.45	—
tanks, dlvd. E	lb.	.41½	—
Diethylstilbestrol, USP, bots., 10-kilo lots	kilo.	100.00	-147.50
1 kilo lot	kilo.	110.00	-152.50
Digitalis leaves, USP dom. dms.	lb.	1.20	—
Digitoxin, USP, bots	gram	5.00	5.50
Diglycol laurate dms	lb.	.35	.38
Stearate dms. ton lots	lb.	.25	—
Dihexyl sebacate, dms., c.l., works.	lb.	.64	—
l.c.l., works	lb.	.64¼	.65
tanks, works	lb.	.62	—
Dihydrazine sulfate, dms., works.	lb.	1.10	1.25
Dihydrostreptomycin hydrochloride, bulk	gram.	.07	.0745
Sulfate, bulk	gram.	.07	.0745
1,2-Dihydroxy anthraquinone, dms., works	lb.	2.75	—
2,2-Dihydroxy-5-5-dichloro-diphenyl-methane, pure, dms	lb.	2.55	—
tech., dms	lb.	1.09	—
Di-isobutyl ketone, dms., c.l., dlvd.	lb.	.16½	—
l.c.l., dlvd	lb.	.17½	—
tanks, dlvd	lb.	.14	—
Phthalate, dms., c.l., dlvd. E	lb.	.31½	—
l.c.l., same basis	lb.	.32½	—
tanks, same basis	lb.	.29	—
Di-isobutylene dms., c.l., dlvd. E	lb.	.10	—
l.c.l., dlvd E	lb.	.11	—
tanks, dlvd E	lb.	.08	—
Di-iso-octyl pntnalate, dms., c.l., dlvd	lb.	.31	.33
l.c.l., same basis	lb.	.32	.34
tanks, same basis	lb.	.28½	.30½
Sebacate, dms., c.l., works	lb.	.63½	—
l.c.l., works	lb.	.64½	—
tanks, works	lb.	.61	—
Di-isopropanolamine, dms., c.l., dlvd.	lb.	.23¼	—
l.c.l., same basis	lb.	.24¼	—
tanks, same basis	lb.	.20¾	—
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies	lb.	.50½	—
l.c.l., same basis	lb.	.51½	—
tanks, same basis	lb.	.48	—
Dillseed, dewhiskered, bgs	lb.	.09¼	—
nat., bgs.	lb.	.08	—
Dimethyl anthranilate, cns	lb.	4.35	5.10
Chloroacetal, dms., c.l., works	lb.	.45	—
l.c.l., works	lb.	.50	—
tanks, works	lb.	.40	—
Ethanolamines, anhyd., dms., c.l., dlvd	lb.	1.225	—
l.c.l., dlvd	lb.	1.235	—
tanks, dlvd.	lb.	1.20	—
70%, dms., c.l., dlvd., 100% basis, contained amines	lb.	.68½	—
l.c.l., dlvd., 100% basis	lb.	.69½	—
tanks, dlvd. 100% basis	lb.	.66	—
Hydroquinone, dms.	lb.	2.20	2.25
Phthalate, dms., c.l., works	lb.	.30½	—
l.c.l., works	lb.	.31½	—
tanks, works	lb.	.28	—
Sebacate, dms., c.l., works	lb.	1.275	—
l.c.l., dlvd	lb.	1.285	—
tanks, works	lb.	1.25	—
Sulfate, 55-gal. ret. dms., c.l., works	lb.	.15	—
l.c.l. works	lb	.16	—
10-gal ret. dms., l.c.l., works.	lb.	.16½	—
Dimethylamine, 25% soln., dms., c.l., frt. equald	lb.	.42	—
l.c.l., frt. equald	lb.	.42½	—
tanks, frt. equald	lb.	.33	—
40% soln., dms., c.l., frt. equald	lb.	.39	—
l.c.l., frt. equald	lb.	.39½	—
tanks, frt. equald	lb.	.33	—
N,N-Dimethylaniline, dms., c.l., frt. alld	lb.	.29½	—
l.c.l. frt alld	lb.	.30½	—
tanks, frt. alld	lb.	.28¼	—
N,N-Dimethylformamide dms., works.	lb.	.34	.39
tanks, works	lb.	.33	—
2,4-Dinitroaniline, dms., 1,000-lb. lots, same basis, frt. equald	lb.	.68	—
smaller lots, frt. equald	lb.	.71	—
m-Dinitrobenzene, 85°C., dms	lb.	.22	—
89°C., dms	lb.	.24	—
2,4-Dinitrochlorobenzene, crystallizing at 46¼°C., dms., c.l., frt. alld. E	lb.	.15¼	—
l.c.l., frt. alld E	lb.	.15¾	—
tanks, frt. alld E	lb.	.15	—
2,4-Dinitrochlorobenzene, crystallizing at 48°C., dms., c.l., frt. alld. E	lb.	.20¼	—
l.c.l., frt. alld. E	lb.	.20¾	—
tanks, frt. alld. E	lb.	.20	—
2,4-Dinitrophenol, bbls	lb.	.37	—
2,4-Dinitrotoluene, oily, dms	lb.	.11	—
refd., 63°C., dms	lb.	.22	—
Dioctyl adipate, dms., c.l., works.	lb.	.42½	—
l.c.l., works	lb.	.43½	—
tanks, works	lb.	.40	—
Phthalate, dms., c.l., frt. alld	lb.	.31	.33
l.c.l., frt. alld	lb.	.32	.34
tanks, frt. alld	lb.	.28½	.30½
Sebacate, dms., c.l., works	lb.	.60½	—
l.c.l., works	lb.	.61½	.62½
tanks, works, dlvd	lb.	.58	.58½
Di-o-tolylguanidine, dms., ton lots, frt. alld	lb.	.60	—
smaller lots, frt. alld	lb.	.61	—
1,4-Dioxane, dms., c.l., works	lb.	.28¾	—
l.c.l., same basis	lb.	.29¼	—
tanks, same basis	lb.	.27	—
Dip oil (see Tar acid oil).			
Dipentaerythritol, bgs., l.c.l., works.	lb.	.35	—
Dipentene, dest-dist., dms., c.l., works	gal.	.47	—
l.c.l., works	gal.	.52	—
ex-whse.	gal.	.62	—
steam-dist., dms., c.l., works, South	gal.	.59	—
dlvd. N. Y	gal.	.67	—
tanks, works, South	gal.	.45	—
Diphenyl, bbls., c.l., works	lb.	.15	—
l.c.l., works	lb.	.16	—
Diphenyl in bags ¼c. lower.			
Oxide, perfume grade, cns	lb.	.56	.61
Phthalate, dms., c.l., works	lb.	.51¾	—
l.c.l., works	lb.	.53¾	—
Diphenylamine, refd., flake, bgs., c.l., works, frt. equald	lb.	.31	—
l.c.l., works, frt. equald	lb.	.33	—
fused, tanks, works, frt. equald.	lb.	.29	—
tech., fused, tanks, works, frt. equald	lb.	.28	—
Diphenylguanidine, bgs., dms., ton lots, frt. alld	lb.	.50	—
smaller lots, frt. alld	lb.	.51	—
Diphenylhydantoin-sodium USP, dms	lb.	5.00	5.60
Dipropylene glycol, dms., c.l., frt. alld	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
tanks, same basis	lb.	.15¼	—
Monomethyl ether, dms., c.l., dlvd. E	lb.	.20	—
l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.18½	—
Divi-divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock	ton	70.00	-72.00
Divinylbenzene 20-25% dms., c.l., works, frt. equald	lb.	.20	—
l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.19	—
50-60%, dms., c.l., works, 100% basis	lb.	1.00	—
l.c.l., works, 100% basis	lb.	1.05	—
Dodecylbenzene, dms., c.l., frt. alld	lb.	.14	—
l.c.l., same basis	lb.	.15	—
tanks, same basis	lb.	.12	—

Dyes, coaltar, certified colors for food, drugs and cosmetics, 500-lb. and 1-lb. lots, dlvd:—

Red, FD & C, No. 1, cns	lb.	5.90	-7.85
No. 2	lb.	3.30	-4.10
No. 3	lb.	19.60	-22.85
No. 4	lb.	5.55	-7.50
Violet, FD & C, No. 1, cns	lb.	15.65	-17.60
Yellow, FD & C, No. 1, cns	lb.	9.15	-11.05
No. 5	lb.	3.30	4.10
No. 6	lb.	3.30	4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 200 lb. and 1 lb. lots, dlvd:—

Black, D&C, No. 1	lb.	10.50	-10.95
Brown, D&C, No. 1	lb.	15.65	-16.10
Green, D&C, No. 5	lb.	15.65	-16.10
No. 6	lb.	15.65	-16.10
No. 7	lb.	14.35	-14.80

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—

Orange, D&C, No. 3	lb.	10.50	-10.95
No. 4	lb.	19.60	-20.05
No. 5	lb.	5.25	5.70
No. 17	lb.	10.50	-10.95
No. 18	lb.	23.55	-24.00
No. 19	lb.	15.50	-15.45
No. 21	lb.	3.10	-3.60
No. 22	lb.	10.50	-10.95
No. 23	lb.	24.20	-24.65
No. 33	lb.	17.00	-17.45
Violet, D&C, No. 2	lb.	15.65	-16.10
Yellow, D&C, No. 7	lb.	10.50	-10.95
No. 8	lb.	10.50	-10.95
No. 10	lb.	13.05	-13.50
No. 11	lb.	13.05	-13.50

Dyes, coaltar, certified colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots dlvd:—

Blue, Ext., D&C, No. 1, cns	lb.	15.65	-16.10
Green, Ext., D&C, No. 1, cns	lb.	15.65	-16.10
Red, Ext., D&C, No. 1, cns	lb.	13.05	-13.50
Yellow, Ext., D&C, No. 1, cns	lb.	10.50	-10.95

Dyes, coaltar for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No

20 Chrysoidine Y, dustless	lb.	.89	—
27 Fast light, orange 2G	lb.	1.09	—
31 Phloxine 2G	lb.	.89	—
36 Yellow 2G	lb.	1.09	—
40 Orange R extra, conc	lb.	1.29	—
57 Fuchsine 6B	lb.	1.31	—
79 Scarlet 2R	lb.	.98	—
151 Orange AD	lb.	.67	—
161 Orange RR	lb.	80	—
176 Fast red A	lb.	1.18	—
179 Rubine XX, conc	lb.	1.25	—
180 Blue F4B	lb.	1.11	—
185 Brilliant scarlet 3RU, conc	lb.	1.02	—
202 Chrome blue black R, conc	lb.	.91	—
561 Brown B	lb.	2.45	—
581 Black EB, 200%	lb.	1.13	—
203 Chrome black T	lb.	.94	—
208 Fast blue SR	lb.	1.10	—
216 Chrome red G	lb.	.92	—
234 Brown Y	lb.	1.08	—
246 Blue black, extra, conc	lb.	1.16	—
275 Milling red 3R, conc	lb.	1.62	—
289 Navy blue 3R, conc	lb.	1.44	—

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Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No.

299	Black F, conc	lb.	1.86	—
304	Neutral black 2B, conc.	lb.	2.21	—
326	Fast scarlet 4BNC	lb.	1.80	—
332	Bismark brown RX, conc., dustless	lb.	1.16	—
365	Brilliant yellow, conc	lb.	3.11	—
382	Scarlet B	lb.	2.20	—
401	Diazo black BHD	lb.	.79	—
406	Blue 2B, extra conc	lb.	1.30	—
419	Red FC	lb.	1.23	—
420	Brown M	lb.	1.19	—
448	Red 4BX, conc	lb.	1.43	—
518	Diamine sky blue FF, extra, conc	lb.	1.65	—
593	Green BY, conc	lb.	.87	—
596	Yellow Brown K, extra	lb.	1.07	—
620	Yellow 2G	lb.	1.11	—
639	Fast Yellow GG	lb.	1.97	—
640	Yellow XX	lb.	1.95	—
655	Yellow OX	lb.	2.24	—
657	Green V	lb.	2.31	—
662	Brilliant green G	lb.	3.07	—
667	Milling green 6B, conc	lb.	4.05	—
671	Blue EG	lb.	1.68	—
681	Crystal violet powder	lb.	2.15	—
698	Violet 6BN Powder	lb.	1.91	—
720	Brilliant blue BBG	lb.	2.07	—
729	Blue B, conc	lb.	3.06	—
749	Red BX	lb.	.87	—
800	Chinoline yellow ZSS	lb.	2.67	—
860	Induline base ZM	lb.	1.07	—
860	Induline base Z2R	lb.	1.07	—

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract dlvd., No

814	Yellow NN, conc	lb.	3.11	—
841	Safranine GF, extra, conc.	lb.	3.48	—
865	Nigrosine J	lb.	4.76	—
922	Blue GXX	lb.	1.88	—
978	Black GXCF, conc	lb.	.32	—
1034	Alizarine red SC	lb.	2.85	—
1054	Alizarine blue SAPX	lb.	3.20	—
1078	Alizarine green CG, extra.	lb.	2.99	—
1085	Alizarine blue black B	lb.	2.56	—
1096	Golden orange GFD, single paste	lb.	2.19	—
1099	Dark blue BO, single paste.	lb.	1.93	—
1101	Jade green N supra double paste	lb.	1.10	—
1106	Blue RS, double paste	lb.	3.26	—
1113	Blue BLED, double paste	lb.	2.48	—
1150	Olive R, single paste	lb.	1.21	—
1151	Brown R, single paste	lb.	1.94	—
1171	Indigo synthetic, 20% paste.	lb.	.31	—
1217	Orange RD, double powder.	lb.	3.94	—
p-4	Brown PG	lb.	2.54	—
p-14	Brown EB	lb.	1.83	—
p-24	Gray L	lb.	1.76	—
p-80	Diazo brilliant scarlet ROAD	lb.	3.07	—
p-202	Diazo black VJ, conc	lb.	2.10	—
p-244	Brilliant scarlet BN	lb.	1.44	—
p-313	Naphthol SWF	lb.	2.24	—

Dyes, coaltar, oil soluble, 100 lb. dms., dlvd.

.24	Oil orange Z-7078	lb.	1.06	—
73	Oil scarlet ZBL	lb.	1.44	—
1073	Oil violet ZIRS	lb.	6.81	—
1078	Alizarine cyanine green base Z	lb.	6.13	—
1080	Oil violet special Z	lb.	6.81	—
	Oil black ZBC	lb.	4.46	—
	Oil black ZBD	lb.	3.03	—
	Oil black ZHH	lb.	4.61	—
	Oil black ZMM	lb.	6.52	—
	Oil blue ZN	lb.	8.02	—
	Oil blue ZV	lb.	4.95	—
	Oil orange ZMG	lb.	1.32	—
	Oil red Z-1700	lb.	1.49	—
	Oil yellow ZG, conc	lb.	6.33	—

Dyes, coaltar, spirit soluble, 100 lb. dms., dlvd.

p-517	Spirit yellow ZR	lb.	4.62	—
p-520	Spirit orange ZR, conc	lb.	5.87	—
	Spirit black ZRB	lb.	2.95	—
	Spirit brown ZG	lb.	5.30	—
	Spirit red ZB, conc	lb.	6.41	—

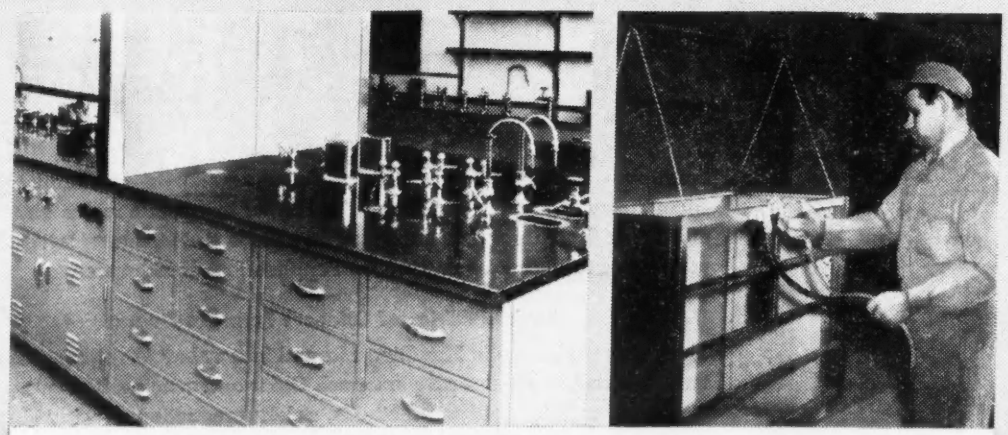
E

Echinacea root, bls	lb.	1.10	—
Egg albumin (see Albumin).			
Yolk, dried, dom., bbls	lb.	1.07	1.09
tanners, bbls	lb.	.06	.06½
Elm bark, grinding, bls	lb.	.30	.32
powd., bbls., bxs	lb.	.45	—
select, bundles	lb.	.75	—
Emetine hydrochloride, USP, bots	oz.	42.50	44.00
Endrin, tech., dms., dlvd., 100% basis	lb.	3.75	—
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots	oz.	.98	1.00
hydrous, bots., 100-oz. lots	oz.	.92	—
Ephedrine hydrochloride, tins, 100-oz. lots	oz.	.75	—
Sulfate, cryst., tins, 100-oz. lots	oz.	.72	—
powd., tins, 100-oz. lots	oz.	.73	—
Epichlorohydrin, dms., c.l., dlvd	lb.	.35	—
l.c.l., dlvd	lb.	.36	—
tanks, dlvd	lb.	.33	—
Epinephrine, syn., USP, bots., 100-gram lots	gram.	.60	—
Epsom salt (see Magnesium sulfate).			
Ergot, NF, dms., tin-lined	lb.	2.00	—
Eserine salicylate, bots	oz.	84.00	—
Sulfate, bots	oz.	84.00	—
Ether (see specific product).			
Ethyl acetate, nat., ferment., 85-88%, dms., c.l., frt. alld	lb.	.14	—
l.c.l., frt. alld	lb.	.15	—
tanks, frt. alld	lb.	.11½	—
95-98%, dms., c.l., frt. alld.	lb.	.14¼	—
l.c.l., frt. alld	lb.	.15¼	—
tanks, frt. alld	lb.	.11¾	—
99%, dms., c.l., frt. alld	lb.	.14½	—
l.c.l., frt. alld	lb.	.15½	—
tanks, frt. alld	lb.	.12	—
syn., 85-88%, dms., c.l., dlvd.	lb.	.14	—
l.c.l., dlvd	lb.	.15	—
tanks, dlvd	lb.	.11½	—
95-98%, dms., c.l., dlvd	lb.	.14¼	—
l.c.l., dlvd	lb.	.15¼	—
tanks, dlvd	lb.	.11¾	—
99%, dms., c.l., dlvd	lb.	.14½	—
l.c.l., dlvd	lb.	.15½	—
tanks, dlvd	lb.	.12	—
Acetoacetate, dms., c.l., dlvd	lb.	.58½	—
l.c.l., dlvd	lb.	.59½	—
tanks, dlvd	lb.	.56	—
Acrylate, dms., c.l., t.l., dlvd.	lb.	.36	—
t.t.l., dlvd	lb.	.37	—
tanks, dlvd	lb.	.34	—
Aminobenzoate, USP (see Benzocaine)			
Amyl ketone, dms. c.l., dlvd	lb.	.20	—
l.c.l., same basis	lb.	.21	—
tanks, same basis	lb.	.17½	—
Benzoate, bots	lb.	.74	.90
Bromide, tech., 98%, dms., c.l., frt. alld. E	lb.	.42	.44
l.c.l., frt. alld. E	lb.	.44	.46
Butyl ketone, dms., c.l., works.	lb.	.36	—
l.c.l., works	lb.	.36¾	—
tanks, works	lb.	.34	—
Butyrate, works	lb.	.85	.90
Carbamate (see Urethane)			
Cellulose, vis. 7 cps., bgs., 5,000-lb. lots or more, works	lb.	.70	—
smaller lots, works	lb.	.72	.80
vis. 10, 20, 50, 100, 150 cps., bgs., 2,000-lb. lots or more, works	lb.	.65	.70
smaller lots, works	lb.	.67	.81
Chloride, tech., cyl., works		.20	.22
dms., works	lb.	.18	.20
tanks, works	lb.	10	—
Cinnamate, cns	lb.	3.35	3.45
Ether, absolute, ACS, dms	lb.	.27	—
anesthesia, USP, hospitals, 1-lb. cns	lb.	1.01	—
½-lb. cns	lb.	1.11	—
¼-lb. cns	lb.	1.21	—
Indust., dms., c.l., dlvd	lb.	.12½	—
l.c.l., dlvd. E	lb.	.13½	—
tanks, dlvd. E	lb.	.10	—
Gallate, dms., 100 to 2,000-lb. lots	lb.	3.90	4.40
Iodine, ebys., works	lb.	3.30	—
Methacrylate, dms., c.l., and less than truckload, works, frt. equald	lb.	.51½	.53
Morphine hydrochloride, USP, bots.	oz.	11.85	—
Nitrite (see Nitrous ether).			
Oenanthate, dms	lb.	1.00	1.50
Oleate, dms., t.c.l., works	lb.	No prices.	
Oxalate (see Diethyl oxalate).			
Silicate dist. (see Tetraethyl orthosilicate).			
40% available SiO_2, dms., c.l., dlvd	lb.	.49½	—
l.c.l., dlvd	lb.	.50½	—
tanks, dlvd	lb.	.47	—
Ethylethanolamines, mixed, dms., c.l., dlvd. E	lb.	.43½	—
l.c.l., dlvd E	lb.	.44½	—
tanks, dlvd. E	lb.	.41½	—
N-Ethyl-a-naphthylamine, dms., works,	lb.	1.02	—
N-Ethyl-o-toluidide, bbls	lb.	.83	—
Ethylamine (see Mono, Di- or Tri-)			
N-Ethylaniline, dms., c.l., frt. alld.	lb.	.51	—
l.c.l., frt. alld	lb.	.52	—
tanks, frt. alld	lb.	.50	—
Ethylbenzene, 99%, dms., c.l., or t.l., frt. equald	lb.	.17	—
l.t.l., same basis	lb.	.18	—
tanks, same basis	lb.	.15	—
Ethylene dichloride, dms. c.l., dlvd.	lb.	.11½	—
l.c.l., same basis	lb.	.12½	—
tanks, same basis	lb.	.09	—
Ethylene dichloride prices W. of Rockies, 1c. per lb. higher.			
Glycol, indust., dms., c.l., dlvd. E	lb.	.16	—
l.c.l., same basis	lb.	.17	—
tanks, same basis	lb.	.13½	—
Monobutyl ether, dms., c.l., dlvd. E	lb.	.22	—
l.c.l., dlvd E	lb.	.23	—
tanks, dlvd. E	lb.	.19½	—
Monoethyl ether, dms., c.l., dlvd. E	lb.	.21	—
l.c.l., dlvd. E	lb.	.22	—
tanks, dlvd. E	lb.	.18½	—
Acetate, dms., c.l., dlvd. E	lb.	.19½	—
l.c.l., dlvd. E	lb.	.20½	—
tanks, dlvd. E	lb.	.17	—
Monomethyl ether, dms., c.l., dlvd. E	lb.	.21	—
l.c.l., dlvd. E	lb.	.22	—
tanks, dlvd. E	lb.	.18½	—
Acetate, dms., c.l., dlvd. E	lb.	.29	—
l.c.l., dlvd. E	lb.	.29¾	—
tanks, dlvd. E	lb.	.27	—
Monostearate, triple pressed, dms.	lb.	.34	—
Oxide, dms., c.l., dlvd. E	lb.	.21½	—
l.c.l., dlvd. E	lb.	.24½	—
tanks, dlvd. E	lb.	.15½	—
Trichloride (see Trichloroethane).			
Ethylenediamine, 85-88%, dms., c.l., dlvd. E, 100% basis	lb.	.46	—
l.c.l., dlvd. E., 100% basis	lb.	.47	—
tanks, dlvd. E., 100% basis	lb.	.44	—
Ethylvanillin, cns., 25-lb. lots	lb.	6.20	6.25
Eucalyptol, USP, cns., dms	lb.	1.25	1.50
Eugenol, USP, bots	lb.	2.25	2.60
Euphorbia herb, bls	lb.	.15	.17

F

Feldspar, 140-200 mesh, bulk, c.l., works	ton	19.50	—
Feldspar in bags $3 per ton higher.			
Fennel seed, Argentine, bgs	lb.	.14	—
Czech, medium, bgs	lb.	.08	—
Indian, light, bgs	lb.	.14	—
Roumanian, bgs	lb.	.08	—
Fenugreek seed, Indian, bgs	lb.	.08½	.09
Moroccan, bgs	lb.	.08½	.09

EPON® RESIN does it!



Laboratory furniture sprayed with Epon resin finish supplied by Glidden Co., Cleveland, and Egyptian Lacquer Mfg. Co., South Kearny, N. J., and Lafayette, Ind.

Browne-Morse Co. found a tough, chemical-resistant coating for laboratory furniture . . .

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Only those coating formulations based on Epon resin passed these tough tests satisfactorily. They combined excellent chemical resistance with outstanding adhesion to steel and aluminum. The Epon resin coatings resisted scuffing and impact and didn't crack or spall—even when severely dented. Epon resin coatings are now standard for all Browne-Morse laboratory furniture.

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SHELL

Ferric acetate, liquor, 28°, bbls., c.l., works	lb.	.09	—
l.c.l., works	lb.	.09¾	—
soln., USP IX, cbys.	lb.	.16	—
djns.	lb.	.17	—
Cacaodylate NF, bots	lb.	13.00	-14.00
Chloride, anhyd., tech., dms., c.l., works	100 lbs.	7.00	—
l.c.l., works	100 lbs.	7.85	—
indust., cryst., bbls., c.l., works	100 lbs.	5.25	- 6.75
l.c.l., works	100 lbs.	5.75	- 7.25
42° Be, photo grade, cbys., c.l., works	100 lbs.	7.25	- 8.25
sewage grade tanks, frt. equald. 100% basis.	100 lbs.	3.50	—
USP, cryst., dms., works	lb.	07½	- .09
Citrate, gran., dms.	lb.	.86	—
Hypophosphite, NF dms	lb.	3.45	—
Naphthenate, liq., 6% Fe, dms., frt. alld	lb.	.25¾	—
Oxalate, gran., dms	lb.	.85	.87
Oxides (see oxides under Black, Brown, Red, and Yellow.)			
Phosphate, NF, soluble, gran., pearls, cs	lb.	.64	.65
Pyrophosphate, NF VII soluble, powd., gran., pearls, dms., 10,000 lb. lots	lb.	.40½	—
Resinate, 6¾% Fe, dms., frt. alld.	lb.	.29½	—
Stearate, dms., c.l., frt. alld	lb.	.37	—
l.c.l., frt. alld	lb.	.38	.42
Sulfate, partially hydrated, bgs., c.l., works	ton.	31.75	-33.75
l.c.l., works	ton	34.75	-40.75
	lb.	.37	—
Ferric-ammonium citrate, brown, pearls, NF, gran., dms	lb.	.60	- .63
green, pearls, USP XII, gran., dms	lb.	.60	- .63
Oxalate, fine gran., dms	lb.	.25½	- .28½
Ferric-potassium oxalate, fine gran., dms	lb.	.30½	- .33½
Ferric-sodium oxalate, fine gran., dms	lb.	.25½	- .28½
Ferrous gluconate, NF, dms	lb.	.94	—
Sulfate, gran., bgs., c.l., works.	ton.	34.50	—
l.c.l., dlvd. Metropolitan area	100 lbs.	3.35	- 4.25
bbls., c.l., works	ton.	40.00	—
bulk, c.l., works	ton.	27.00	—
USP, cryst., bbls., dms	lb.	.09½	- .10
Fir, balsam, Canada, cns	gal.	32.00	—
Oregon, bbls	gal.	4.50	—
Fishliver oil (see Oil fishliver).			
Fishmeal, dom., menhaden, 60% protein grd., bgs., Chesapeake Bay area	ton.	135.00	—
scrap, same basis	ton.	130.00	—
Fleaseed (see Psyllium seed).			
Formaldehyde, USP, 37% (inhibited), methanol, Zone 1, dms., c.l., dlvd	lb.	.07	—
l.c.l., works	lb.	.0745	- .075
tanks, dlvd.	lb.	.042	—
Zone 2, 12-13% methanol, dms., c.l., dlvd.	lb.	.0735	—
tanks, dlvd	lb.	.045	—
Methanol-free (uninhibited), Zone 1, tanks, dlvd	lb.	.0395	—
Zone 2, tanks, dlvd	lb.	.042	—
Fringetree bark, bls	lb.	.60	- .61
Fullers' earth, bgs., c.l., Ill. mines,	ton.	19.00	—
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines	ton.	17.50	—
calcined, bgs., c.l., same basis	ton.	20.00	-21.75
oil-bleaching grade, 100-mesh, bgs., c.l., same basis	ton.	16.30	-17.00
200-mesh, bgs., c.l., same basis	ton.	17.50	-18.00
spent, bgs., c.l., shipt. point	ton.	4.50	- 5.00
Furfural, dms., c.l., works	lb.	.13	—
l.c.l., works	lb.	.14	—
tanks, dlvd. E	lb.	.12	—
dlvd. W	lb.	.13	—
Fusel oil, refd., dms., c.l., dlvd	lb.	.18	—
l.c.l., dlvd	lb.	.19	—
tanks, dlvd	lb.	.15½	—
Fustic extract, cryst., No. 1, bbls., l.c.l	lb.	.47½	—
No. 2 bbls. l.c.l	lb.	.45½	—
No. 3, bbls., l.c.l.	lb.	.43½	—
liq., No. 1, bbls., l.c.l	lb.	.22½	—
No. 2, bbls., l.c.l	lb.	21¼	—
No. 3, bbls., l.c.l	lb.	.19	—
solid, No. 1, bxs., l.c.l	lb.	.45	—

G

G salt, bbls., frt. alld, 100% basis	lb.	.73	—
Gammapicoline (see g-Picoline)			
Gelatin, edible, pure (pork skin), 75 Bloom test, bbls., c.l	lb.	.53	—
150 Bloom test, bbl., c.l	lb.	.64	—
200 Bloom test, bbls., c.l	lb.	.70	—
225 Bloom test, bbls., c.l	lb.	.73	—
275 Bloom test, bbl., c.l	lb.	.81	—
Gelsemium root, bls	lb.	.26	—
Gentian root, bls.	lb.	.23	—
grd., bbls., bxs	lb.	.27	—
powd., bbls., bxs	lb.	.27	—
Geraniol, extra, cns., dms.	lb.	3.95	—
standard, cns., dms.	lb.	3.75	—
Geranyl acetate, cns.	lb.	3.95	—
Ginger oleoresin, NF, from African root, bots.	lb.	4.00	- 7.75
from Jamaican root, bots.	lb.	6.00	-10.25
Root, African, bls.	lb.	.33	—
Cochin, bgs.	lb.	.29	—
Jamaican, No. 2 bgs	lb.	.78	—
No. 3 bgs.	lb.	.75	—
Nigerian, split, bgs.	lb.	.28	—
Glauber's salt, anhyd. (see Sodium sulfate).			
Glue, bone, extracted, dry bone, 80 jellygrams, bgs., c.l., dlvd	lb.	.13	—
104 jellygrams, same basis	lb.	.17	—
131 jellygrams, same basis	lb.	.18	—
164 jellygrams, same basis	lb.	.20½	—
191 jellygrams, same basis	lb.	.21	—
222 jellygrams, same basis	lb.	.22	—
12 green, 40 jellygrams, bgs., c.l., dlvd	lb.	.13½	—
65 jellygrams, same basis	lb.	.13¾	—
86 jellygrams, same basis	lb.	.14	—
115 jellygrams, same basis	lb.	.14½	—
135 jellygrams, same basis	lb.	.15	—
164 jellygrams, same basis	lb.	.16	—
180 jellygrams, same basis	lb.	.17	—
200 jellygrams, same basis	lb.	.18½	—
Bone glue, l.c.l. prices 1c. higher.			
Hide, 70-94 jellygrams, bgs., c.l., dlvd	lb.	.13	—
95-121, bgs., c.l., dlvd	lb.	.16	—
122-149, bgs., c.l., dlvd	lb.	.18	—
150-177, bgs., c.l., dlvd	lb.	.20	—
178-206, bgs., c.l., dlvd	lb.	.22	—
207-236, bgs., c.l., dlvd	lb.	.24	—
237-266, bgs., c.l., dlvd	lb.	.26	—
267-298, bgs., c.l., dlvd	lb.	.28	—
299-330 bgs., c.l., dlvd	lb.	.30	—
331-362 bgs., c.l., dlvd	lb.	.32	—
363-394, bgs., c.l., dlvd	lb.	.34	—
395-427, bgs., c.l., dlvd	lb.	.36	—
428-460, bgs., c.l., dlvd	lb.	.38	—
461-494, bgs., c.l., dlvd	lb.	.40	—
495-529, bgs., c.l., dlvd	lb.	.41	—
Hide glue l.c.l. prices 1c. higher.			

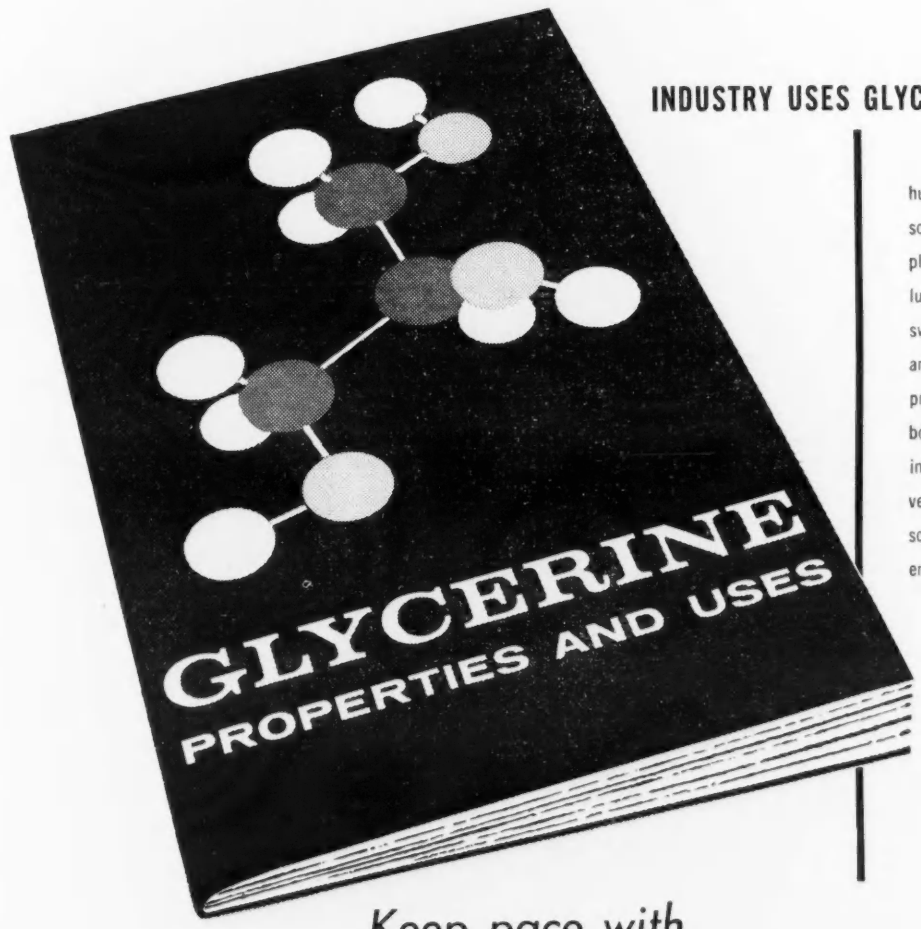
l-Glutamine, bots.	gram.	.68	—
Glycerine, nat., crude, saponification, 88%, to refineries, tanks	lb.	.1760	—
soaplye, 80%, tanks	lb.	.16	—
refd., CP, USP, 99%, dms., c.l., dlvd	lb.	.29½	—
l.c.l., dlvd	lb.	.30	—
tanks, dlvd	lb.	.28	—
96%, dms., c.l., dlvd	lb.	.28½	—
l.c.l., dlvd	lb.	.29	—
tanks, dlvd	lb.	.27	—
high gravity, dms., c.l., dlvd.	lb.	.29¼	—
l.c.l., dlvd	lb.	.29¾	—
tanks, dlvd	lb.	.27¾	—
nat., refd., high gravity	lb.	.28½	—
l.c.l., dlvd.	lb.	.29	—
syn., dms., c.l., dlvd	lb.	.29½	—
l.c.l., dlvd.	lb.	.30	—
tanks, dlvd	lb.	.28	—
Glycine (see Acid aminoacetic).			
Glycerol (see Gylcerine).			
Glyoxal, 30%, dms., c.l., works	lb.	.18½	—
l.c.l., works	lb.	.19¼	—
Golden seal root, NF, tested, bls.	lb.	3.50	—
powd., bxs	lb.	2.75	- 3.25
Graphite, amorpn., powd., bgs., fib. dms., ex whse	lb.	.06	.09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse	lb.	.19	- .21½
90-92%, powd., bgs., fib. dms., ex whse	lb.	.21	- .24½
95-97%, powd., bgs., fib. dms., ex whse	lb.	.29	- .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse	lb.	.29	- .31
No. 2, 90-95%, bgs., fib. dms., ex whse	lb.	.29	.31
Grease, white, choice, all hog tanks, dlvd	lb.	.07¼	- .08
yellow, tanks, dlvd.	lb.	.06⅝	- .06⅞

Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works	lb.	5.10	—
tungstated, PTMA, kgs., works.	lb.	6.40	—
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis	lb.	.40	—
16-30%, bbls., same basis	lb.	.40	—
31-45%, bbls., same basis	lb.	.41	—
45-49%, bbls., same basis	lb.	.44	—
reduced color, 25%, bbls., same basis	lb.	.19	—

Chrome green prices are ½c. higher, dlvd at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss N. C., S. C., Tenn., Texas (Dallas, Ft Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Chromium oxide, hydrated, bbls., fib. dms., c.l., frt. alld	lb.	1.00	- 1.10
pure, bgs., c.l., frt. alld	lb.	.42	—
l.c.l. same basis	lb.	.43	—
Dyes (see Dyes, coaltar).			
Malachite, straight, PTMA, bbls., works	lb.	4.60	—
Paris (see Paris green).			

Green, phthalocyanine toner, bbls., works	lb.	3.95	—
resinated, bbls	lb.	3.50	—
water dispersable, bbls	lb.	1.71	—
Pigment B kegs	lb	1.35	—
paste, kegs	lb	.38	—
Grindelia robusta herb, bls	lb.	.38	.40
Guaiacol, NF, cryst., dms., tins	lb	2.10	2.15
liq., cbys, dms	lb	2.30	2.40
Carbonate, NF VII, dms	lb	3.40	3.45
Gum, aloe (see Aloe).			
Arabic, amber sorts, bgs	lb.	.23	—
powd., USP, bbls	lb.	.28	—
Asafetida (see A).			
Asphaltum (see A).			
Benzoin, Sumatra, cs	lb.	.33	—
Camphor (see C).			
Cellulose, high vis., bgs., 23,000-lb lots or more, works, frt. alld	lb.	.55	—
smaller lots same basis	lb	.57	—
Copal, Congo, No. 1, bgs	lb.	.23	—
No. 2, bgs	lb.	.19	- .21
No. 3, bgs	lb.	.15½	- .17
Manila C, bgs.	lb.	.37	- .40
CBB, bgs.	lb.	No stocks.	
DBB, bgs.	lb.	.27¼	- .31
DK, bgs	lb.	No stocks.	
dust, bgs	lb.	.14	Nom.
MA, soft, bgs.	lb.	.19½	- .22
WS bgs.	lb.	No stocks.	
Philippine, pale, chips, bgs	lb.	.21	- .24
nubs, bgs	lb.	.31	- .35
seeds, bgs	lb.	.20	- .22
sorts, bgs	lb.	.20½	—
Pontianak, chips, bgs.	lb.	.26	—
nubs, bgs	lb.	.39	- .40



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Gum, dammar, Batavia, A E, cs. lb. No stocks.
dust, bgs lb. .16½ - .17½
E, bgs lb. .20 - .22
East India, batu, bold, bgs lb. .13½ - .15½
nubs and chips, bgs lb. .08 - .09
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .12½ - .14
nubs and chips, bgs lb. .11 - .13
pale, chips, bgs. lb. .14½ - .15½
nubs, bgs lb. .17 - .19
Siam, cs lb .39 —
Singapore, No. 1, bgs lb. .45¼ - .48
No 2, bgs lb. .32 - .34
No. 3, bgs lb No stocks.
dust, bgs, lb. .16¾ - .17
seeds bgs lb .20 .22
Ester, gum-rosin type, dms., c.l., dlvd, Ill., Mid., Ky., Mich., Mid-Atl States, N. E States, Minneapolis, N. C., Ohio, St Louis, St. Paul, Va., W Va lb. .14½ - .16
wood-rosin type, dms., c.l., same basis lb. 15 .16
Guar, food grade, bgs., c.l. lb. .50 - —
tech, grade, bgs., c.l. lb. .40 - —
Karaya, No 1, NF, powd., bbls lb. .45 - —
No 2, powd., bbls. lb. .45 - —
No 3, powd., bbls lb. .40 - —
Locust bean, powd., bgs lb. .45 - —
Myrrh, cs. lb .55 - —
Opium (see Opium).
Olibanum siftings, cs. lb. .15 - .20
tears, cs. lb .22 .30
Gum, rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs. lb. 3.90 - —
No. 2, cs lb. 3.20 - —
No. 3, cs. lb. 2.65 - —
powd., USP, bbls lb. 1.15 - —
Gypsum, plaster of paris, 100-lb. paper bgs trucks, dlvd N Y C ton 20.30 - —
Terra alba, dom., paper bgs., same basis ton 20.00 - —
works, N. Y. C ton 17.00 - —
imp., English, 100-lb. paper bgs., ex dock, N. Y. C ton 55.00 - —
ex warehouse ton 60.00 62.00

H

Hawthorn berries, bgs lb. .21 - —
Heliotropin, 100-lb. lots, dms lb 3.00 - 3.25
Hellebore root, dom. green, bls lb. 70 75
Helonias root, bls lb 1.75 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l lb. 47 - —
No. 2, bbls., l.c.l lb. 43 - —
No. 3, bbls., l.c.l lb. 41 - —
No 4 bbls., l.c.l lb. .39 - —
No 5, bbls., l.c.l lb. .37 - —
paste, No. 1, bbls., l.c.l. lb. 20½ - —
Henbane leaves, bls lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾ - —
Borger, Tex gal. 14¾ - —
Hesperidin, purif., 25 lb. lots, f.o.b., works lb. 8.95 - —
Methylchalcone, bots., 50-lb. lots, works lb. 22.50 - —
5-lb. lots, works lb. 23.00 - —
1-lb. lots, works lb. 23.50 - —
Hexachlorophene, dms lb 1.98 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N Y C. lb. .222 - —
1,000-19,999-lb. lots, same basis lb. .232 - —
smaller lots, same basis lb. .242 - —
fib dms., 1,000-lb. lots or more, same basis lb. .259 - —
smaller lots same basis lb. .242 - —
USP, dms., 500-lb. lots or more, smaller lots, same basis lb. .41½ - —
Hexane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15½ - —
Borger, Tex gal. .15½ - —
1-Hexanol, dms., c.l., works lb. .35 - —
l.c.l., works lb. .35¾ - —
tanks, works lb .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
Salicylate, dms. lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd lb. .18 - —
tanks, dlvd lb. .14½ - —
n-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb 14.00 - —
smaller lots, dlvd lb. 14.50 - —
Histamine diphosphate, USP, bots. kilo. 400.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo. 80.00 - 85.00
1-5 kilo lots, works kilo 90.00 95.00
Homatropine hydrobromide, USP bots oz. 8.50 - —
Methylbromide, USP, bots oz. 5.65 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.25 - —
Horehound herb, bls lb 16 - 19
Hydrastine, bots oz. 29.50 - 31.00
Hydrochloride, NF, bots oz. 29.50 31.00
Hydrastis (see Goldenseal).
Hydrazine free base, ret dms., works lb. No stocks.
Hydrate, 85%, ret. dms., works. lb. 1.35 - 1.55
100%, ret. dms., works lb. 1.60 1.90
Hydrocortisone acetate, bulk, bots., dms gram. 4.50 - —
Alcohol, bulk, bots., dms gram. 4.50 - —
Hydrofuramide, dms., fib ctns., works lb. .30 .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 —
l.c.l., works lb. .55 .60
Fluoride anhyd., cyls., dlvd, E lb. .30½ - .32¼
dlvd W lb. .39 —
tanks, works lb. .21 —
Peroxide, USP, bbls., dlvd lb. .03¾ - .05
35%, dms., c.l., dlvd lb. .202 —
l.c.l., dlvd lb. .211 —
tanks, dlvd lb. .1800 —
Hydroquinone, photo grade, bbls., dms lb. .98 - 1.02
tech., dms., c.l., dlvd lb. .82½ - —
l.c.l., dlvd lb. .84½ - —
Hydroxycitronellal, ens lb. 6.00 7.45
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots oz. 13.50 —
Hydrobromide, bots oz. 6.00 7.00
Sulfate, bots oz. 7.00 7.50
Hypernic extract, cryst., No 2, bbls., l.c.l lb. .52 - —
liq. No. 1, bbls., l.c.l lb. .35 - —
No 2, bbls., l.c.l lb. .27 - —

I

Ichthammol, NF, jars lb. .75 2.57
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 indigo synthetic).
Indole, CP, bots lb. 16.50 - 21.00
Inositol, bots., dlvd lb. 5.00 - —
dms., dlvd lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.42 - —
resub., USP, dms., jars lb. 2.30 2.32
Iodochlorohydroxyquinolin, USP, dms lb. 5.90 - —
Iodoform, NF, dms., kgs lb. 4.90 - 5.00
a-Ionone, ens lb. 5.25 - 5.40
b-Ionone, ens lb. 5.40 - 5.70
Ipecac root, bgs., whole lb. 7.50 - —
powd., bbls., bxs lb. 7.85 - —
Irish moss, bleached, prime, bls lb. .28 - .34
Iron compounds (see Ferric or Ferrous), Oxides (see under Black, Brown, Red, and Yellow).
Isoborneol, ens lb. 1.25 - 1.70
Isobornyl acetate, ens lb. .46 - .70
Formate, dms lb. .80 - —
Propionate, dms lb. 1.15 - 1.45
Isobutyl acetate, perfume grade, ens lb. .75 1.00
solvent grade, dms., c.l., dlvd, E. of Rockies lb. .14¼ - —
l.c.l., same basis lb. .15¼ - —
tanks, same basis lb. .11¾ - —
Isobutyraldehyde, CP, dms., c.l., dlvd lb. .27½ - —
l.c.l., dlvd lb. .28½ - —
tech., dms., c.l., dlvd lb. .21½ - —
l.c.l., dlvd lb. .22½ - —
tanks dlvd lb. .19¼ - —
Isoeugenol, ens lb. 3.60 4.40
Isoniazid, powd., bulk, 25-kilo lots or more kilo. 23.00 - 25.50
smaller lots kilo. 24.00 - 26.00
Isopentane, coml. grade, tanks, f.o.b. Tex, refy gal. .15½ - —
Isonicotinic acid hydrazide (see Isoniazid).
Isophorone, dms., c.l., works lb. .24½ - —
l.c.l., works lb. .25¼ - —
tanks, works lb. .22½ - —
Isopropanol (see Alcohol, isopropyl).
Isopropyl acetate, dms., c.l., dlvd. lb. .13 - —
l.c.l., same basis lb. .14 - —
tanks, same basis lb. .10½ - —
Alcohol (see Alcohol, isopropyl).
Benzene (see Cumene).
Ether, dms., c.l., dlvd lb. .07 - —
l.c.l., dlvd lb. .08 - —
tanks, dlvd lb. .05 - —
Isopropyl-N-(3-chlorophenyl) carbamate, (CIPC), 70% in xylol, dms., c.l., t.l., works lb. .70 - —
l.c.l., works lb. .714 - .814
Isopropylamine (see Mono, Di, or Tri-).
Isopropyl-N-phenyl carbamate, 450-lb. fib. dms., c.l., t.l., works. lb. .75 - —
l.c.l., works lb. .80 - .90
Isoquinoline, dms., works lb. .65 - 1.25

J

Jalap root, NF, bls lb. NP - —
powd., bbls., bxs lb. NP - —
Juniper berries, bgs lb. .18 - .20
Tar, NF, dms lb. .42 - .60

K

Kaolin (see also Clay China).
NF, powd., fib. dms lb. .10 - .12
colloidal, fib. dms lb. .15½ - .17½
Kola nuts, bgs lb. .15 - —

L

Lactose, edible, fib. dms., 30,000-lb. lots, works lb. .15 - .15½
2,000-lb. lots, works lb. .15¾ - .16½
200-1,800-lb. lots, works lb. .16¾ - .17
Edible lactose in bgs. ½-1c. lower.
fermentation grade, bgs., c.l., works lb. .08½ - —
USP, fib. dms., 30,000-lb. lots, works lb. .21½ - —
2,000-lb. lots, works lb. .22¼ - —
200-1,800-lb. lots, works lb. .22¾ - —
USP lactose in bgs. 1c. lower.
Lanolin, cosmetic, dms., works lb. .26 - .28
USP, anhyd., dms., works lb. .24 - .26
hydrous, dms., works lb. .23 - .25
Lard, cash, dms., Chicago lb. .1140 —
Larkspur seed, bgs lb. .25 - —
n-Lauryl methacrylate, dms., c.l. or t.l., works lb. .65½ - —
Lavender flowers, medium, bls lb. .75 - .80
ord., bls lb. .25 - .40
select., bls lb. .36 - —

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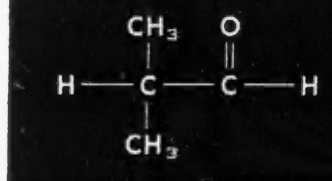
Lead acetate, white, cryst., bbls	lb.	.23½	—
gran., bbls	lb.	.24½	—
powd. bbls	lb.	.24½	—
NF, cryst., gran., powd	lb.	.32¼	—
Arsenate, acid powder, dealers, 5-lb. bgs. or larger, c.l., frt. alld on 96 lbs. or more	lb.	.27½	—
l.c.l., frt. alld	lb.	.28½	—
1-lb. bgs., c.l.	lb.	.41½	—
l.c.l.	lb.	.42½	—
Blue, basic sulfate, bbls., c.l., shipt. point, frt. alld	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
Carbonate (see Lead, white, basic carbonate).			
Chloride, dms	lb.	.45	—
Iodide, NF V jars	lb.	3.82	—
Linoleate fused 26@% Pb. dms.	lb.	.33	—
Metal pigs, prime, N. Y	lb.	.16	—
St Louis		.1580	—
Metallic paste, dms., 20,000-40,000-lots, works	lb.	.33¾	—
10,000-20,000-lb lots, same basis	lb.	.34¾	—
200-2,000-lb. lots, same basis	lb.	.35¾	—
Prices ex whse. Jersey City, N. J., 4½c. per lb higher.			
Monosilicate, bgs., c.l., works, frt. equald	lb.	.20	—
l.c.l., same basis	lb.	.2075	—
Naphthenate, liq. 16% Pb, dms., dlvd	lb.	.17	—
24% Pb, dms., dlvd	lb.	.21	—
solid, 37% Pb., dms., dlvd	lb.	.27½	—
Nitrate, bbls	lb.	.23¾	—
Orthosilicate-silica gel, 50-60% PbO dms. works	lb.	.29¾	.34¼
Peroxide, tech., powd., bbls	lb.	.38¾	.40¼
Phthalate, dibasic, dms., works	lb.	.41	—
Red 95% Pb_3O_4, or less, bbls., c.l., works, frt. alld	lb.	.19	—
l.c.l., same basis	lb.	.20	—
97% Pb_3O_4, bbls., c.l., same basis.	lb.	.192	—
l.c.l., same basis	lb.	.202	—
98% Pb_3O_4, bbls., c.l., same basis.	lb.	.1935	—
l.c.l., same basis	lb.	.2035	—
Resinate, precip., 23% Pb, dms., dlvd	lb.	.32½	—
Salicylate, normal, dms., works.	lb.	.46	—
Silicate (see Lead, white, basic, silicate)			
Sulfate (see Lead, blue, basic sulfate Lead white basic sulfate).			
Tallate, liq., 16% Pb, dms	lb.	.13	—
24% Pb., dms	lb.	.18½	—
solid, 30%	lb.	.23¼	—
White, basic carbonate, bgs., c.l., shipt. point, frt. alld	lb.	.19	—
l.c.l., same basis	lb.	.20	—
silicate, bgs., c.l., shipt. point, frt. alld	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
sulfate, bgs., c.l., shipt. point, frt. alld	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works	lb.	.15	.17
l.c.l., same basis	lb.	.15½	.17½
undleached, non-ret. dms., c.l., same basis	lb.	.13	.15
l.c.l., same basis	lb.	.14½	.16½
Lemon bioflavonoid complex, 25-lb. lots, works	lb.	9.00	—
dl-Leucine, dms., works	lb	12.25	-15.00
Licorice root, whole, bbls	lb.	.10	.12
gran. bbls	lb.	.15	.17
powd., bbls	lb	.12	.15
Lignosulfonate, 70% tannin, bgs., c.l., works	lb.	.06½	—
l.c.l., works	lb.	.06¾	—
Lime, chemical (quicklime), bulk, c.l., metropolitan N. Y. destination, freight equalized with nearest producing point	ton.	19.46	—
Lime, hydrated, bulk, c.l., same basis.	ton.	20.96	—
Spray, bgs., c.l., same basis	ton.	24.96	—
Lime salts (see Calcium).			
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite).			
Limestone grd., bgs., works	ton.	3.50	4.00
Linalool, ex bois de rose oil, dms.	lb.	3.65	4.80
ex lignaloe wood oil, dms	lb.	5.30	7.10
Linalyl acetate, ex bois de rose, 90-92%, dms	lb.	3.30	5.10
96-98%, dms	lb.	4.05	6.75
ex petitgrain, bots	lb.	4.80	5.90
Lindane, 25% formulation, dealers, dms., frt. alld	lb.	1.00	1.09
99% tech., formulators, dms., frt. alld	lb.	2.63	3.25
Linden flowers with leaves, bls	lb.	.25	—
without leaves, bls	lb.	.30	—
Linseed meal, expeller, 32-34% bulk, Midwest, mills	ton.	62.50	—
extracted 36% bulk, same basis.	ton.	53.50	-54.00
Litharge, coml., powd., bbls., c.l., works, frt. equald	lb.	.18	—
l.c.l., same basis	lb.	.19	—
Lithium benzoate, dms	lb.	1.65	1.67
Bromide NF, dms., works, frt. equald	lb.	2.45	—
Carbonate, NF, dms., c.l., t.l., dlvd	lb.	1.29½	—
ton lots to t.l., dlvd	lb.	1.30	—
tech., dms., c.l., t.l., dlvd., frt. alld. works	lb.	.82	—
l.c.l., same basis	lb.	.85	1.11½
Chloride, CP, anhyd., ton lots	lb.	1.26½	—
tech., anhyd., dms., c.l., t.l., dlvd., or works, frt. alld.	lb.	1.00	1.05
l.c.l., same basis	lb.	1.05	1.05½
Citrate, NF, dms	lb.	1.60	1.64
Fluoride, bbls., 10,000-lb. lots, dlvd	lb.	2.17½	—
ton lots, dlvd	lb.	2.18½	—
less ton lots, dlvd	lb.	2.23½	—
Hydride powd., dms., 500-lots, works	lb.	10.50	-12.50
Hydroxide, monohydrate, dms., c.l., t.l., dlvd. or works, frt. alld	lb.	.80	.80½
l.c.l., same basis	lb.	.81	.81½
Manganite, dms., works	lb.	.95	1.15
Nitrate, tech., dms., 100-lb. lots.	lb.	1.25	—
Salicylate, dms.	lb.	1.60	1.70
Silicate, dms., works	lb.	1.10	1.30
Stearate, dms., c.l., works	lb.	.47½	—
ton lots, works	lb.	.48½	—
less-ton lots, works	lb.	.53½	—
Sulfate, dms., 100-lb. lots	lb.	1.15	—
Titanate dms., works	lb.	1.15	1.35
Lithopone, ord., bgs., c.l., dlvd. E	lb.	.08	—
l.c.l., dlvd. E	lb.	.08¾	—
Lobella herb, bls	lb.	1.50	—
Lobeline sulfate, bots., works	oz.	37.50	-39.00
Logwood extract, cryst., No. 1, bbls., l.c.l	lb.	.41	—
No. 2, bbls., l.c.l	lb.	.39	—
liq., No. 1, bbls., l.c.l	lb.	.20	—
No. 2, bbls., l.c.l	lb.	.19	—
No. 3, bbls., l.c.l	lb.	.18½	—
solid No. 1, boxes, c.l	lb.	.33	—
Lycopodium, cs	lb.	1.20	2.00
dl-Lysine hydrochloride, bots	kilo.	140.00	-150.00

M

Mace, Siauw, siftings, bls	lb.	2.50	2.80
West Indian, No. 1, bls. shipment	lb.	3.00	—
Magnesia, calcined, tech., bgs., ctns., works	lb.	.25¼	.26
syn. rubber grade, light, bgs., c.l., works	lb.	.29¼	—
extra light, bgs., c.l., works	lb.	.29¼	.30
l.c.l., works	lb.	.30	—
USP, light, ctns	lb.	.35	.36
heavy, bbls.	lb.	.45	.52
Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald	ton.	82.50	—
dead-burnt standard grain, bulk, c.l., Chewelah, Wash	ton.	40.00	—
Magnesium bromide jars	lb.	.90	1.00
Carbonate, tech., bgs., c.l., frt. equald	lb.	.10½	—
l.c.l., frt. equald	lb.	.12	.13
truckloads, frt. equald	lb.	.11	—
USP, bgs., c.l., frt. equald	lb.	.12½	—
t.l., frt. equald	lb.	.13	—
l.c.l. frt equald	lb.	.14	.15
Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points.			
Chloride, anhyd., 92% flake or pebble, dms., c.l., works	lb.	.12¾	—
l.c.l., same basis	lb.	.14	.15
hydrous, 99% flake, bgs., c.l., works	ton.	55.00	—
l.c.l., works	ton.	65.00	-80.00
Gluconate, dms., ens	lb.	1.34	1.41
Hydroxide, NF, medicinal, bbls., dms., kgs	lb.	.28½	.30
Magnesium metal, 99.8% ingots, 10,000 lb. lots or more, works	lb.	.36	—
pigs, 10,000-lb. lots or more, works	lb.	.35¼	—
sticks, cs., works, frt. alld. on carlots	lb.	.59	—
Oxide (see Magnesia, calcined).			
Nitrate, cryst., dms., works	lb.	.39	—
Peroxide, 15%, dms., works	lb	1.00	1.05
Phosphate, tribasic, NF, bbls	lb.	.75	—
Silicate (see Talc).			
Silicofluoride, dms., works	lb.	.10½	.12
Sulfate, tech., bgs., c.l., works 100 lbs.		2.13	—
l.c.l., works 100 lbs.		2.90	3.15
USP, cryst., bgs., c.l., works, 100 lbs.		2.35	—
l.c.l., 5,000 lbs., 1 withdrawal 100 lbs.		3.10	—
smaller lots 100 lbs.		3.35	—
Trisilicate, USP, dms., 5,000-lb. lots	lb.	.38	—
1,000-lb. lots	lb.	.40	—
100-lb. lots	lb.	.45	—
Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.			
Malathion, dms., c.l., works	lb.	.90	—
l.c.l., works	lb.	.92	1.02
Maleic anhydride, dms., c.l., dlvd. E	lb.	.27	—
l.c.l., dlvd. E	lb.	.28	—
tanks, dlvd. E	lb.	.26	—
Prices on maleic anhydride W. of Rockies, 1½c. higher.			
Mandrake root bls	lb.	.55	60
Manganese acetate, bbls., dlvd	lb.	.35	—
Arsenate, bgs	lb.	.16	—
Borate, tech., fib. dms	lb.	.25	—
Carbonate, bbls., works	lb	.22	—
Chloride, anhyd., dms., works	lb.	.25½	—
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works	ton.	102.00	—
paper bgs., works	ton.	98.50	—
dms., works	ton.	106.50	—
Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher.			
Gluconate, dms	lb.	1.80	1.94
Hydrate, bbls., dlvd	lb.	.36	—
Hypophosphite, NF, dms	lb	3.52	—
Linoleate, liq., 4.35% Mn, dms	lb.	.32½	—
solid, precip., 8.2% Mn, bbls	lb.	.37½	—
Naphthenate, liq., 6% Mn., dms., frt. alld	lb.	.27	—
Resinate, fused, 3½% Mn, dms.	lb.	.24	—
precip., 6½-7% Mn, dms	lb.	.28	—
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E	ton.	80.50	—
l.c.l., dlvd. S. E	ton.	87.50	—
Tallate 6%, dms	lb.	.24	—
Mangrove bark E. African, 38% tannin, c.l., ex dock	ton.	66.00	—
So American 30% tannin, c.l., ex dock	ton.	55.00	-58.00



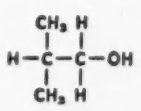
isobutyraldehyde

Specifications	Technical Grade	C. P. Grade
Color, A.P.H.A. (platinum-cobalt standard)	10 p.p.m. max.	10 p.p.m. max.
Specific Gravity, 20°/20°C.	0.789-0.799	0.786-0.790
Isobutyraldehyde by distillation	95.5% min.	
Turbidity (fuller's earth standard)		1 A.P.H.A. unit max.
Isobutyraldehyde by titration	95.5% min.	97% min.
Boiling Range		95% between 62°-67°C.
Water	3.0% max.	0.5% max.
Acidity, as isobutyric acid	0.35% max.	0.35% max.
Ash	0.0015% max.	0.0013%

isobutyraldehyde

...a versatile building block

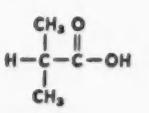
Commercially Available Derivatives



isobutyl alcohol

Reduction product of isobutyraldehyde

Color, A.P.H.A. (platinum-cobalt standard)	5 p.p.m. Max.
Specific Gravity, 20°/20°C.	0.80210-0.80444
Assay, by weight	99.0% Min.
Nonvolatile	0.005 gram per 100 ml. sample min.
Acidity, as acetic acid	0.005% Max.
Water	0.2% Max.
Boiling Range	
Initial	106.0°C.
Dry	109.0°C.
Carbonyl	0.07% Max.

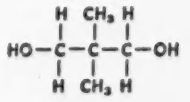


isobutyric acid

Oxidation product of isobutyraldehyde

Color, A.P.H.A. (platinum-cobalt standard)	10 p.p.m. Max.
Specific Gravity, 20°/20°C.	0.946-0.951
Assay	99.0% Min.
Water	0.10% Max.
Reducing Substances	3.0 ml. 0.1 N $KMnO_4$ per 2 ml. sample min.
Boiling Range	
Initial	150°C.
Dry	157°C.

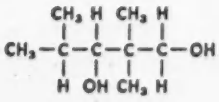
Available Pilot Plant Derivatives



neopentyl glycol

Reduced condensation product of isobutyraldehyde and formaldehyde

Form	Crystalline solid
Color	White
Melting Point	124°-130°C.
Purity	96% minimum



2, 2, 4-trimethyl-1, 3-pentanediol

Reduced condensation product of isobutyraldehyde

Form	Crystalline solid
Color	White
Melting Point	49°-51°C.
Purity	95% minimum

Eastman isobutyraldehyde is a new commercially available chemical building block supplied in both C. P. and technical grades. C. P. isobutyraldehyde, an essentially anhydrous material, is primarily intended for use in the manufacture of fine chemicals such as pharmaceuticals. It is available in carload drum quantities. The technical grade of isobutyraldehyde is intended for applications where extremely high purity is not essential. This grade is available in tank car quantities.

Produced by the oxonation of propylene, this versatile aldehyde can be used to produce many interesting chemicals. Among the derivatives already available in commercial quantities are isobutyl alcohol and isobutyric acid. Neopentyl glycol and 2,2,4-trimethyl-1,3-pentanediol are presently available in pilot plant quantities and are expected to be in commercial production during 1956. These isobutyraldehyde derivatives are useful in themselves or as starting materials in the production of solvents, plasticizers, pharmaceuticals, polymer intermediates, resins, insecticides, hydraulic fluids and lubricants.

If you are interested in isobutyraldehyde itself, or in any of the available derivatives we will be glad to send you samples so that you may evaluate their possible place in your production picture.

SALES OFFICES: Eastman Chemical Products, Inc., Kingsport, Tenn.; New York, N.Y.; Framingham, Mass.; Cincinnati; Cleveland; Chicago; St. Louis; Houston. **West Coast: Wilson Meyer Co.,** San Francisco; Los Angeles; Portland; Salt Lake City; Seattle.

Eastman
CHEMICAL PRODUCTS, INC.
KINGSPORT, TENNESSEE
subsidiary of EASTMAN KODAK COMPANY

Mannitol, com'l, fib. dms., ton lots, works lb. .60 - —
dms. to ton lots, works lb. .62 - —
single dm., works lb. .65 - —
MBTS (see Mercaptobenzothiazyl disulfide).
MBT (see 2-Mercaptobenzothiazole).
Melamine, bgs., c.l., works lb. .30 - —
l.c.l., works lb. .31 - —
Menadione, USP, bots. gram .044 - .05
Menthol, nat., USP, Brazilian, cs lb. 6.30 - 6.40
syn., USP, racemic, cns lb. 4.95 - —
Menthyl salicylate, tins lb 4.00 4.25
2-Mercaptobenzothiazole, bgs., fib. dms., ton-lots, works, frt. alld lb. .40 - —
less ton lots, same basis lb. .42 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld lb. .50 - —
less ton lots, same basis lb. .52 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb. 4.98 - —
gran., or powd., dms., 50-lb. lots or more lb. 4.78 - —
Cyanide, NF VIII, powd., fib. dms. lb 6.84 - —
Iodide, red, NF, fib. dms lb. 7.72 - —
Oxide, red, NF, powd., fib. dms lb. 5.97 - 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms lb 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb. 7.72 - —
Mercury, ammoniated (see White precipitate, USP).
Metal, 76 lb. per flask net-flask 255.00 -257.00

Mesityl oxide, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd. lb. .1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Chloroaniline).
Metanitroaniline (see m-Nitroaniline).
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine).
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal. .75 - —
syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal. .45 - —
l.c.l., same basis gal. .51 - —
tankwagon, 2,000-4,000 gal. lots, dlvd. Metropolitan area gal. .33 - —
4,000 gal., min., frt. alld. or dlvd gal. .30 - —
4,000 gal., min., works, Carteret, Camden, N. J gal. .27½- —
Zone 2, dms., c.l., or truckload min. frt. alld. or dlvd. gal. .48 - —
l.c.l., same basis gal. .54 - —
tankwagon, 2,000-4,000-gal. lots, min., dlvd. Metropolitan areas gal. .36 - —
tanks, 4,000 gal., min., frt. alld or dlvd gal. .33 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).
dl-Methionine, fib. dms., frt. alld, 50-lb. or more lb. 3.50 - —
feed grade, 98%, fib. dms., same basis lb. 2.65 - —
Methoxychlor, 50% wettable powder, dealers, dms., cs., frt. alld lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .20½- —
l.c.l., same basis lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd. Zone 1 lb. .21 - —
l.c.l., same basis lb. .21½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss., Ala, Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., frt. alld. E gal. .63½- —
l.c.l., frt. alld. E lb. .69½- —
tanks, frt. alld. E gal. .48½- —

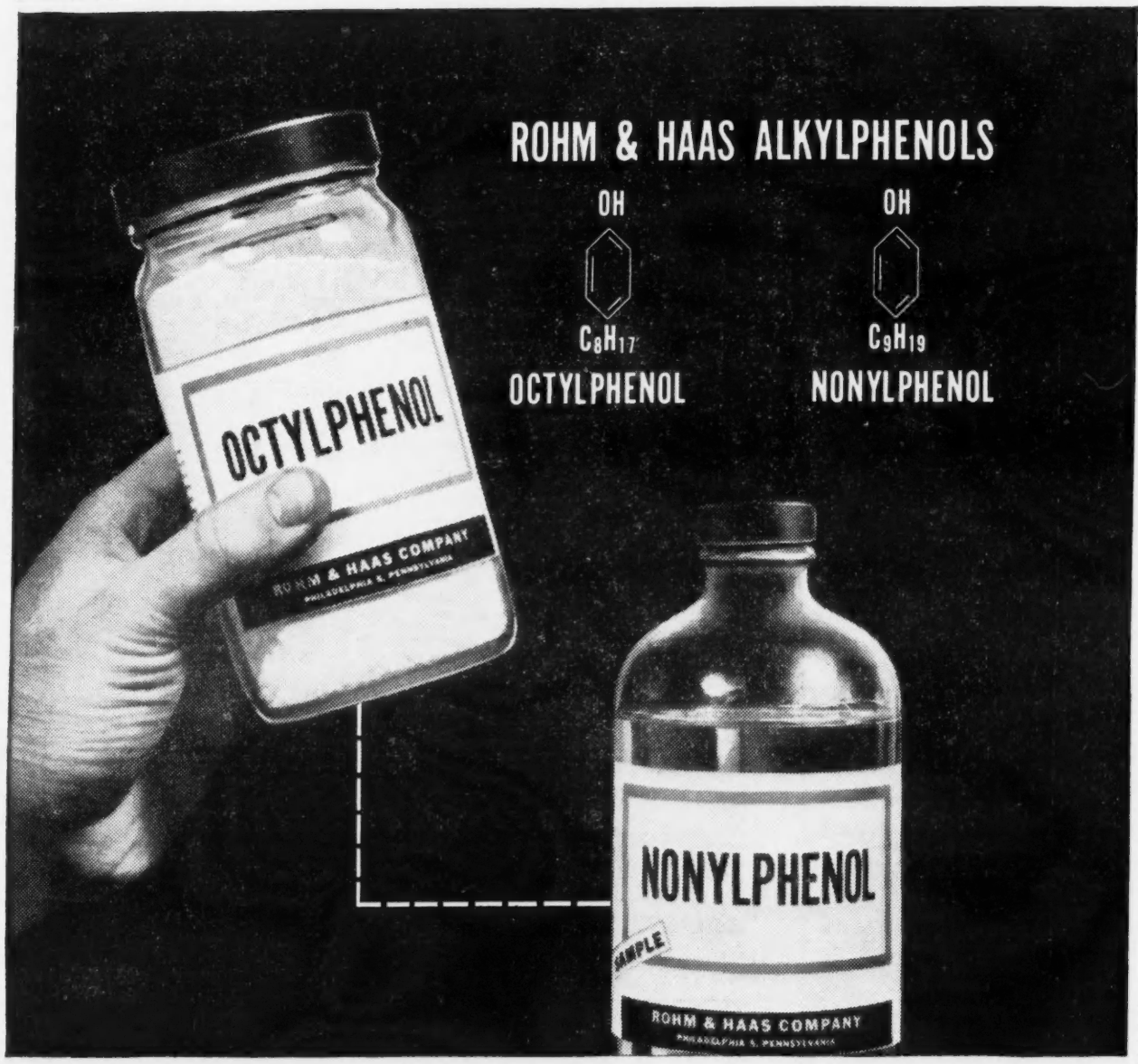
Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.

Acrylate, dms., c.l., t.l., dlvd lb. .39 - —
l.t.l., dlvd lb. .40 - —
tanks, dlvd lb. .37 - —
Alcohol (see Methanol).
Amyl acetate, dms., c.l., dlvd. E. lb. .16 - —
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .13½- —
Ketone, dms., works lb. 1.05 - —
Anthranilate, cns lb. 2.35 - 2.65
Benzoate, cns., dms lb. .60 - .75
Bromide, jobbers, cyls., various sizes, frt. alld. E lb. .47 - .61

Methyl cellulose, special vis. (1,500-4,000 cps.) 50-lb. bgs., c.l., works. lb. .78 - —
2,000-lb. lots and more, same basis lb. .65 - —
smaller lots, frt. alld. on 100 lbs. lb. .89 - 1.00
standard vis. (15,400 cps.), 50-lb. bgs., c.l., frt. alld lb. .60 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs. lb. .75 - .85
Chloride, indust., cyls., frt. equald. lb. .22 - —
tanks, multi-unit, same basis. lb. .15¾- —
single unit, same basis lb. .12 - —
refrigerator mfrs., cyls., dlvd. lb. .46 - .48
other consumers or service men, cyls., dlvd lb. .67 - —
Chloroform (see 1,1,1-trichloroethane).
Cinnamate, cns lb. 1.55 - 1.80
Cyclohexanol, dms., c.l., works lb. .35½- —
l.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Ethyl ketone, dms., c.l., dlvd. lb. .14 - —
l.c.l., dlvd. lb. .15 - —
tanks, dlvd lb. .11½- —
Formate, refd., dms lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .10 —
Heptin carbonate, bots lb. 31.00 -42.00
p-Hydroxybenzoate, fib dms lb. 1.90 2.00
Ionone, standard, cns., dms. lb. 5.00 - 5.25
Isobutyl carbinol, dms., c.l., dlvd. lb. .16 - —
l.c.l., dlvd. lb. .17 - —
tanks, dlvd lb. .13½- —
Ketone, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .13½- —
Methacrylate, dms., c.l., t.l., frt. equald, with Melle, W. Va. lb. .31 - —
smaller lots, same basis lb. .31½- —
tanks, same basis lb. .29 - —
Naphthyl ketone, cryst., cns lb. 3.00 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate)
Roseaniline chloride, NF, fib. dms., 5-lb. lots lb. 5.64 - —
Salicylate, USP, cns., 500-lb. lots lb. .59 - —
Testosterone, USP, 100-gram bots. gram .68 —
2-Methylbenzylamine, dms., l.c.l., works lb. 1.25 - —
2-Methylbenzyl dimethylamine, dms., c.l., works lb. 1.89 - —
l.c.l., works lb. 1.90 - —
2-Methyl-5-ethyl pyridine dms., c.l., works lb. .445 - —
l.c.l., works lb. .45 - —
tanks, works lb. .43 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - 3.60
smaller lots, same basis lb. 3.40 - 3.55
Chloride, tech., dms., c.l., dlvd. E. lb. .13¼- —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .11¾- —
b-Methylnaphthalene, 32°C. m.p., dms., works lb. .90 - —
Methylpentanediol (see Hexylene glycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works lb. .04 - —
roofing, 20 to 80 mesh, works lb. .03 - —
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06½- —
l.c.l., ex-whse lb. .07¼- —
paint or lacq., bgs., c.l., 325 mesh, works, frt. alld. E lb. .08¼- —
l.c.l., ex-whse. or frt. alld. E lb. .09 - —
rubber, bgs., c.l., works, frt. alld. E lb. .08 - —
l.c.l., ex-whse. or frt. alld. E lb. .08¾- —
wallpaper, bgs., c.l., works, frt. alld., E lb. .08¼- —
l.c.l., ex-whse. or frt. alld. E lb. .09 - —
white, 5-10 microns, bgs., c.l., works, frt. alld. E lb. .08¼- —
l.c.l., ex-wnse. or frt. alld. E lb. .09 - —

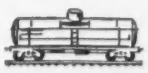
Mica, wet-grd. W. of Miss. ½c. higher; W. of Rockies, 1c. higher.

Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans gal. .17½- .18
New York gal. .18 - .18½
Molybdenum (metal), powd., 80 or 200 mesh, ctns., works kilo. 7.84 - —
325 mesh, ctns., works kilo. 9.13 - —
Trioxide, pure, dms., works lb. 1.15 - —
tech., dms., works, basis Mo. content lb. 1.39 - —
Monobutylamine, dms., c.l., E. of Rockies lb. .55½- —
l.c.l., same basis lb. .56½- —
tanks, same basis lb. .53 - —
Monochlorobenzene, dms., c.l., frt. alld. or dlvd. E lb. .10 - —
l.c.l., same basis lb. .11 - —
tanks, same basis lb. .08½- —
Monoethanolamine, dms., c.l., dlvd. E lb. .27½- —
l.c.l., same basis lb. .28½- —
tanks, same basis lb. .25 - —
Monoethylalphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E lb. .37½- —
l.c.l., dlvd. E lb. .38½- —
tanks, dlvd. E lb. .35 - —
Monoethylaniline (see N-Ethylaniline).
Monoethylorthotoluidin (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd. E lb. .27½- —
l.c.l., same basis lb. .28½- —
tanks, same basis lb. .25 - —
Monoisopropylamine, dms., c.l., dlvd. lb. .32½- —
l.c.l., same basis lb. .33½- —
tanks, same basis lb. .30 - —
Monomethylamine, 30-35% soln., dms., c.l., frt. equald, 100% basis. lb. .40 - —
l.c.l., frt. equald 100% basis. lb. .40½- —
tanks, frt. equald 100% basis. lb. .31 - —
40% soln., dms., c.l., frt. equald, 100% basis lb. .37 - —
l.c.l., frt. equald, 100% basis. lb. .37½- —
tanks, frt. equald, 100% basis. lb. .31 - —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Morphine, cns oz. 12.40 -12.60
Acetate, anhyd., cns oz. 9.95 -10.00
Hydrobromide, cns oz. 9.90 - 9.95
Hydrochloride, NF, cns oz. 9.90 - 9.95
Sulfate, USP, cns oz. 9.90 -10.05
Morpholine, dms., c.l., dlvd E lb. .55¼- —
l.c.l., dlvd E lb. .56¼- —
tanks, dlvd. E lb. .52¾- —



ROHM & HAAS ALKYLPHENOLS

Low Cost Intermediates



Here are just a few ideas on how Rohm & Haas octylphenol and nonylphenol can help you build products and properties economically. • They react with aldehydes to yield phenolic resins. • When used with other phenols, even small quantities make phenolic resins more water resistant, more soluble in oil, and better in electrical properties. • Octylphenol stabilizes ethylcellulose against deterioration by ultraviolet light.

These alkylphenols are also logical intermediates in making non-ionic wetting agents and emulsifiers, detergent oil-additives, fungicides, rubber chemicals, corrosion inhibitors, and pharmaceuticals. They're available in tank cars and carloads. Write Department SP today for more information.

Chemicals for Industry

ROHM & HAAS COMPANY

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

Representatives in principal foreign countries

Musk, syn., ambrette, 100-lb. lots, fib. dms.	lb.	4.45	- 5.15
25-lb. lots, cns.	lb.	5.05	- 5.65
5-lb. lots, cns.	lb.	5.20	- 5.50
ketone, 100-lb. lots, fib. dms.	lb.	4.70	- 5.30
25-lb lots cns	lb	5.35	—
5-lb lots, cns	lb.	5.45	- —
xylol, 100-lb lots, fib. dms	lb	1.40	- —
25-lb lots, cns	lb	1.45	- —
5-lb lots, cns	lb	1.50	- —
Mustard seed, Danish, yellow, bgs	lb	10½	- —
Dutch, bgs.	lb.	.10½	- —
English, yellow, bgs.	lb.	.11	- —
Montana, oriental, bgs.	lb.	.08½	Nom.
Yellow, bgs	lb.	.10½	- —
Myrobalans, J-1, genuine, bgs., ex-dock	ton.	63.60	-64.00
crushed, bgs. ex dock	ton.	79.00	-80.00
Bombay, bgs., ex dock	ton.	61.00	-62.00
Extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty	lb.	.10	- .10¼

N

Naphtha, painters (see Petroleum naphtha V M & P.).			
Solvent (see S).			
Naphthalene, crude, dom., 74°, tanks, frt. equald	lb.	06¼	—
78°, bgs., c.l., same basis	lb.	.07½	.08
l.c.l., same basis	lb.	.07¾	08¼
tanks, same basis	lb.	.07	—
imp., 78°, bgs., large lots	lb.	.05	Nom.
refd., indust., chipped, crushed, bgs., frt. equald	lb.	.12½	- —
tanks, same basis	lb.	.11¾	- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis,	lb.	.15½	- —
cs., 50 lbs. c.l., same basis	lb.	.15¾	- —
1-lb. pkgs., c.l., same basis.	lb.	.18½	- —
a-Naphthol, bbls. frt. alld	lb.	1.00	- —
b-Naphthol, tech., flake, bbls., c.l., works	lb.	.33	- —
l.c.l., works	lb.	.35	- —
Benzoate, fib dms., works	lb	3.00	- —
custom contract, works	lb	1.65	- —
Salicylate, dms	lb	5.00	- —
Sulfate, cns	lb.	35.00	- —
a-Naphthylamine bbls. frt. alld	lb	.50	- —
b-Naphthylamine tech. flake, bbls., works	lb.	1.60	- —
Neocinchophen, USP dms., frt. adjusted	lb.	7.00	- 8.00
Neomycin, fib. dms., 5 kilo lots, basis, activity gram.		.45	- —
100-999 gram lots, basis, activity, gram.		.55	- —
Nerolin, cns	lb.	2.45	- 2.65
Niacinamide (see Nicotinamide).			
Nickel acetate, bbls. dlvd	lb.	77	.90½
Carbonate bbls. dlvd	lb.	73¾	81¾
Chloride, bbls. dlvd	lb.	38½	46½
Formate, bbls., ton lots, frt. alld	lb.	.68	- .69
Metal, electro cathodes, cs., works	lb.	.64½	- —
Nitrate, bbls. works	lb.	.37	.38
Oxide, black, bbls	lb.	.76	- —
green bbls	lb.	.76	- —
Sulfate, bgs., c.l., dlvd	lb.	.30¼	- —
l.c.l. dlvd	lb.	.31¼	.38¼
Nicotinamide, USP, dms., frt. adjusted	kilo.	12.00	-12.30
Hydrochloride dms. frt. adjusted.	kilo.	11.50	-11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld	lb.	1.20	- —
manufacturers, 500-lb. dms., frt. alld	lb.	1.05	- —
Niger seed, bgs	lb.	.12	- .12½
Nikethamide, chys	lb.	7.50	- —
m-Nitroaniline, cryst., dms., frt. alld.	lb.	1.15	- —
paste, dms., frt. alld., 100% basis.	lb.	1.10	- —
o-Nitroaniline, flaked, dms., t.l., frt. alld	lb.	.49	- —
l.t.l., frt. alld	lb.	.51	- —
p-Nitroaniline, dms., frt. alld	lb.	445	- —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld	lb.	.12	- —
l.c.l., frt. alld.	lb.	.13	- —
tanks, frt. alld.	lb.	.11	- —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works	lb.	.34	- —
l.c.l., same basis	lb.	.35	- .37
18-25 cps., bbls., c.l., same basis	lb.	.36	- —
l.c.l., same basis	lb.	.37	- .39
250-400, 600-1,000 secs., bbls., c.l., same basis	lb.	.39	- —
l.c.l., same basi	lb.	.40	- .42
spirit-soluble, 30-35 cps., ¼, ½, secs., bbls., c.l., same basis	lb.	.41	- —
l.c.l., same basis	lb.	.42	- .44
5-6 cps., 40-60 secs. bbls., c.l., same basis	lb.	.40	- —
l.c.l., same basis	lb.	.41	- .43
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.			
o-Nitrochlorobenzene, dms., c.l., frt. alld	lb.	.15	- —
l.c.l., same basis	lb.	.16	- —
tanks, same basis	lb.	.13	- —
p-Nitrochlorobenzene, dms	lb.	.26	- .27
2-Nitro-4-chlorophenol, dms	lb.	.75	- —
Nitroethane, dms., c.l., dlvd. E	lb.	.24	- —
l.c.l., dlvd. E	lb.	.24¾	- —
tanks, dlvd. E	lb.	.22½	- —
Nitroethane prices West of Rockies are 1c. higher.			
Nitrogen solutions, tanks, frt. equald, unit-ton.		1.10	- —
Nitrogenous process tankage, bulk, works, unit-ton.		3.00	- 4.00
Sewage sludge, bulk, works, July, August	unit-ton.	2.75	+ .50
After September 1	unit-ton.	2.95	+ .50
Nitromethane, dms., c.l., dlvd. E	lb.	.24	- —
l.c.l., dlvd. E	lb.	.24¾	- —
tanks dlvd. E	lb.	.22½	- —
Nitromethane prices West of Rockies are 1c. higher.			
a-Nitronaphthalene, bbls., frt. alld.	lb.	.41	- —
Nitropropane-1, and -2, dms., c.l., dlvd. E	lb.	.22½	- —
l.c.l., dlvd. E	lb.	.23¼	- —
tanks, dlvd. E	lb.	.21	- —
Nitropropane prices West of Rockies are 1c. higher.			
o-Nitrophenol, dms., works, frt. equald	lb.	.94	- —
p-Nitrophenol, dms., frt. alld., c.l.	lb.	.51	- —
l.c.l.,	lb.	.53	- —
o-Nitrotoluene, dms. c.l., frt. alld.	lb.	.10	- —
l.c.l. frt. alld	lb.	.11	- —
tanks, frt alld	lb.	.09	- —
m-Nitro-p-toluidine, dms	lb.	1.59	- —
Nitrous ether, conc. nots 100-lb. lots	lb.	1.28	- 1.35
Nonyl phenol, dms. c.l., frt. alld.	lb.	.26½	- —
l.c.l., frt. alld	lb.	.27½	- —
tanks, frt. alld	lb.	.24½	- —
Nutgalls, Aleppo, bgs	lb.	.36	- .38
Chinese, bgs.	lb.	No prices.	
Nutmeg, East Indian, bgs	lb.	.88	- —
West Indian, bgs.	lb.	.92	- —
Nux vomica, bls	lb.	.10	- .12
powd., bbls., bxs	lb.	.15	- .17

O

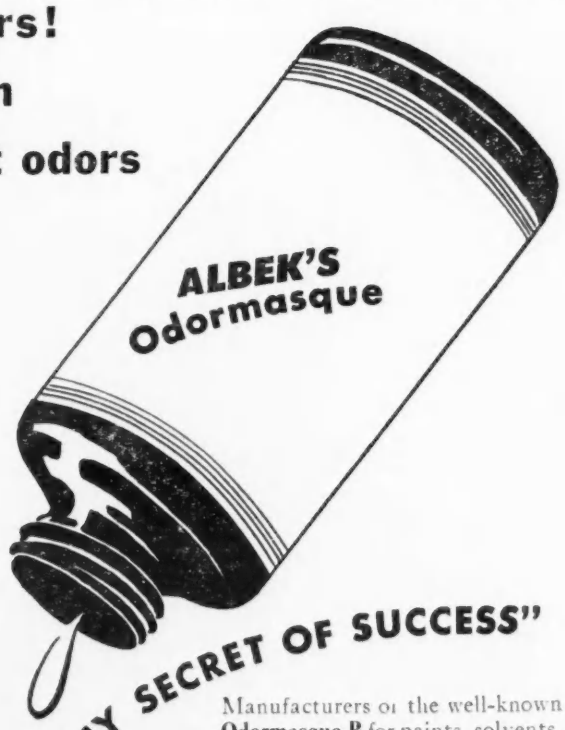
Octane, indust., tanks, Bayonne, N. J	gal.	.19	- —
Baytown, Tex	gal.	.15¾	- —
Borger, Tex	gal.	.15¾	- —
1-Octanol, tech., dms., c.l., dlvd.	lb.	.33	- —
l.c.l. dlvd	lb.	.37	- —
tanks, dlvd	lb.	.32½	- —
Octyl phenol, bgs., c.l., works	lb.	.24	- —
l.c.l., works	lb.	.24½	- —
tanks, works	lb.	.23	- —
Drum prices for octyl phenol are 11c. higher			
(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity quality or in individual suppliers, views.)			
Oil, abies, siberica, cns	lb.	3.05	- 3.35
Almond, artif., bitter (see Benzaldehyde).			
nat., bitter, F.P.A. bots	lb	3.00	3.75
NF, bots.	lb	3.25	3.75
sweet, USP, cns., dms	lb.	1.25	- —
Allspice (see Oil, pimento).			
Amyris, dms.	lb.	1.25	- —
Angelica root, bots	lb.	66.00	-100.00
seed, bots	lb	56.00	95.00
Aniline (see A).			
Anise, USP, dms	lb.	3.50	- 4.00
Apricot, kernel, USP, dms	lb.	.48	- .65
Avocado, cns.	lb.	3.25	- —
Bay, NF, Puerto Rican, 50-55%, cns	lb.	2.15	- 3.00
55-60%, cns	lb.	2.50	- 3.00
West Indian, 50-55% cns. dms.	lb.	1.85	2.40
Bergamot, nat., NF, Italian, cns.	lb.	9.75	-11.00
Birchtar, crude, cns	lb.	1.50	- 1.90
rectified, NF, cns	lb.	1.75	- —
Oil, bois de rose, Brazil, dms	lb.	2.80	- —
Mexican (see Oil, lignaloe wood).			
Bone, dms., works	lb.	65	70
Cajeput, native, cns	lb	1.75	- 3.50
redist., USP, cns	lb	2.25	3.40
Calamus bots	lb.	12.00	-20.00
Camphor, sassafrassy, dms.	lb.	.20	- .45
white, dms	lb	29	—
Cananga, native, cns	lb.	8.50	8.75
rectified, cns	lb	10.00	-13.00
Caraway, NF, cns	lb.	3.50	- —
Capsicum (see Capsicum oleoreson).			
Cardamom, NF, bots	lb.	38.00	-40.50
Cassia, USP (see Oil, cinnamon, USP).			
Castor, blown, dms., c.l	lb.	2500	- —
l.c.l.	lb.	.2600	- —
dehydrated, bodied, dms., c.l	lb.	.2610	- —
l.c.l.	lb.	.2710	- —
tanks	lb.	.2410	- —
unbodied, dms., c.l	lb.	.2460	- —
l.c.l.	lb.	.2560	- —
tanks	lb.	.2260	- —
hydrogenated, bgs., c.l., dlvd	lb.	.25¾	- —
l.c.l., dlvd.	lb.	.31¾	- —
No. 3, tech., dms., c.l	lb.	.19¼	- —
l.c.l.	lb.	.20¼	- —
tanks	lb.	.17¼	- —
No. 1, Brazilian, tanks	lb.	.18	- .18¼
USP, dms., c.l.	lb.	.23	- —
l.c.l.	lb.	.24	- —
tanks	lb.	.21	- —
refd. and deodorized, dms., c.l	lb.	—	- —
l.c.l.	lb.	.28½	- —
tanks	lb.	—	- —
sulfonated, 50%, dms., works.	lb.	.13½	- .14½
75% dms., works	lb.	.17½	- .18½
Oil, cedarleaf, USP, XIII, cns., dms.	lb.	3.50	- 3.90
Cedarwood, cns., dms	lb.	.75	- 1.00
Celery seed, bots	lb.	8.00	-20.00
Chamomile, blue, Hungarian, bots.	lb.	190.00	-195.00
Chenopodium, NF, cns.	lb.	3.75	- —
Chinawood (see Oil, tung).			
Cinnamon, bark, bots	lb.	36.00	-70.00
leaf, crude, dms	lb.	1.60	- 2.00
USP cns., dms. (Cassia)	lb.	10.25	-10.90
Citronella, Ceylon, cns., dms	lb.	.88	- —
Java, cns.	lb	1.95	- —
Java-type, cns.	lb.	1.25	- —
Clove, bud, USP, cns., dms	lb.	2.65	- 2.90
leaf, crude, dms	lb	1.20	- 1.50
Coconut, crude, tanks, N. Y	lb.	.12	- —
Pac. coast	lb.	.11¾	- —
refd. Cochin type dms. tax incl.,	lb.	.19	- .19¼
deodorized, tax incl., dms	lb.	.22	- .23
Cod, Newfoundland, dms	lb.	.11¾	- .12
Codliver USP dms	gal.	1.45	- 1.55
Copaiba, cns.	lb.	1.75	- 2.30
Coriander, USP bots.	lb.	11.75	- —
Corn, crude, tanks, works	lb.	.12¼	- —
foots (soapstock), acid 95% tanks, N. Y	lb.	.05¼	- —
refd., salad, dms.	lb.	.1796	- .18¼
tanks	lb.	.1596	- —
Costus, bots	oz.	8.00	- —
Cottonseed, crude, tanks, South East	lb.	.12¼	- —
Valley	lb.	.12¼	- —
Texas	lb.	.11¾	- .12¼
foots (soapstock), acid 95% tanks, N. Y	lb.	.04½	- —
refd., salad, dms	lb.	.17¼	- .17¼
tanks	lb.	.15¼	- —

Scents mean dollars!

We are specialists in masking unpleasant odors

We invite you to submit your particular odor problem, preferably with sample of your product.

We will forward our recommendation without obligation on your part.



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Please send free sample and information about ODORMASQUE for use in:

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COMPANY_____

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CITY_____ ZONE_____

STATE_____

Oil, Creosote—Orange

Oil, creosote (see Creosote, coaltar).
Cubeb, cns. lb 4.10 - 4.25
Cumin, bots., cns. lb 4.75 - 5.00
Cypress, bots. lb 5.30 -
Degras (see D).
Dillseed, bots. lb 2.80 - 4.25
Dillweed, dom., bots., dms. lb. 3.25 - 4.25
Dip (see D).
Erigeron, cns. lb 5.50 7.50
Eucalyptus, NF, rect., 70-80% dms. lb. .62 - —
80-90%, dms. lb. .72 - —
Fennel, sweet, USP, cns. lb 2.80 - —
Fir, canada, cns. lb. 2.75 - 3.25
Fish, refd., alkali, dms. lb. .1500- .1550
kettle bodied, dms. lb. .1730- .1780
light-pressed, dms. lb. .1350- .1400
tanks lb. .1200- —
Fishliver, crude for feeds or concentrating 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms. 1,000,000 units. .09 - .10
40,000 to 55,000 A units per gram, dms., 1,000,000 units. .10½- .11
100,000 A units per gram., dms 1,000,000 units. .14 - —
200,000 A units per gram., dms 1,000,000 units. .15½- —
500,000 A units per gram., dms 1,000,000 units. .16 - —

Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.

Oil, fusel (see F).
Garlic, pure, bots. oz. 4.50 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, cns. lb.13.50 -14.50
Bourbon, cns. lb.13.75 - —
Turkish (see Oil palmarosa).
Ginger, dist., bots. lb.18.50 -19.50
Grapefruit, dms. lb. 1.70 - 3.25
Grease, No. 1, dms., c.l. lb. .15¼- —
l.c.l. lb. .16¼- .18¼
extra, winter, strained, dms., c.l. lb. .17¼- —
prime, burning, dms, c.l. lb. .18¾- —
l.c.l. lb. .19¾- .21¼
Guaiacwood, cns. lb. 1.65 - 2.05
Hemlock, cns. lb. 2.10 2.50
Juniper berry, NF, VIII, bots. lb. 2.75 - 4.00
twice rectified, bots. lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., cns. lb. .38 - .55
Lard (see Oil, grease).
Laurel leaf, dms., cns. lb 9.75 -12.50
Lavandin, dms., cns. lb. 2.55 - 2.95
Lavender, flower, USP, French 35-37% ester, cns. lb. 2.85 - 4.60
38-40% ester, cns. lb. 9.25 -10.00
40-42% ester, cns. lb.10.00 -14.00
spike, Spanish, cns. lb. 2.05 - 2.60
Lemon, USP, Calif., cns., dms. lb. 4.25 - 5.00
Messina, cns. lb. 5.75 - —
terpeneless, bots. lb.50.00 -85.00
Lemongrass, cns., dms. lb. 2.10 - —
Lime, dist., Mexican, cns. lb. 3.80 - —
West Indian, cns. lb. 3.80 - —
expressed, West Indian, cns. lb. 6.00 - 8.00
terpeneless, bots. lb.50.00 -85.00

Oil, lignaloe wood, Mex., cns. lb. 4.65 - —
Linseed, raw, dms., c.l., N. Y. lb. .1600- —
l.c.l. lb. .1700- .1725
tanks (f.o.b. Minneapolis) lb. .1270- —
New York lb. .1400- —
tankwagon, New York lb. .1440 .1450

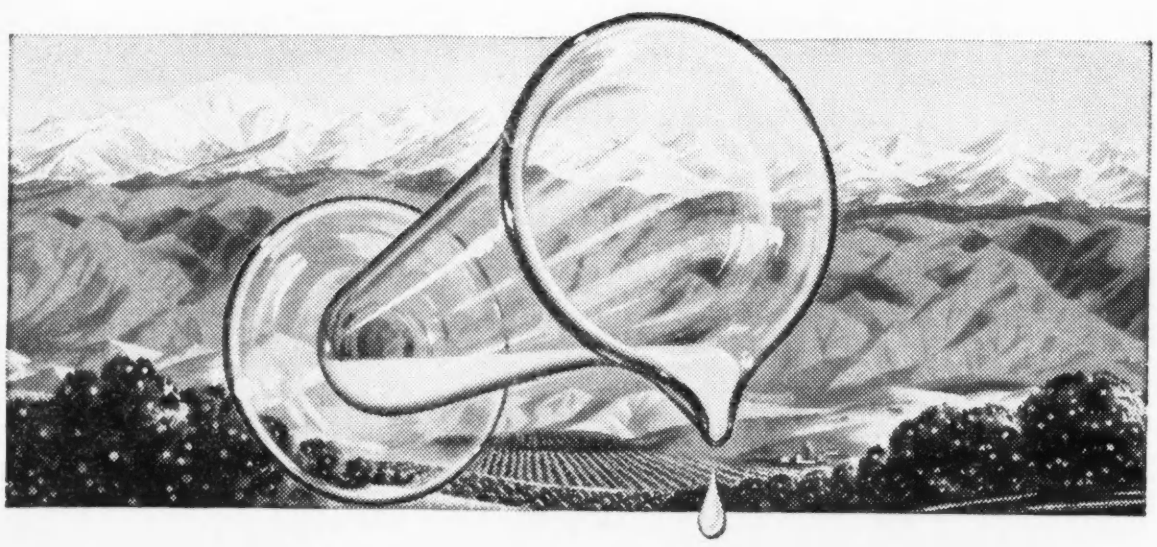
Boiled linseed oil, .006c. per lb. higher.

Mace, dist., cns., dms. lb. 5.75 - 6.75
Mandarin (see Oil, tangerine).
Menhaden, crude, tanks, works, Atlantic & Gulf lb. .08¾ Nom.
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. lb. .17½ Nom.
syn., bots. lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms. lb. .30 - .33
20° cold test, dms. lb. .29 - .32
30° cold test, dms. lb. .28 - .31
Neroli, NF, French bots. lb.575.00 - —
Nutmeg, USP, dist., East Indian, cns., dms. lb.10.90 - —
West Indian, cns., dms. lb.10.90 - —
Ocotea cymbarum, dms. lb. .50 - .60
Oiticica, liq., dms. lb. .15¾- .16¼
tanks lb .14¼- .14½
Oleo, extra, dms. lb. .18¼- .18¾
Olibanum, bots. lb. 5.50 - 7.65
extra fine, bots. lb. 8.00 - 9.00
Olive, edible, Spanish, dms., duty-paid gal. 3.25 - 3.35
Orange, sweet, dist., cns. lb. .45 - .80
expressed, USP, Brazilian, cns., dms. lb. No stocks.
Calif., cns., dms. lb. .60 - 1.25
Florida, cns., dms. lb. .50 - .60
Messina, cns. lb. 3.85 - 5.85
West Indian, cns., dms. lb. 2.50 - 3.65
sesquiterpeneless, bots. lb.65.00 -120.00
Origanum, Spanish, cns. lb. 2.00 - —
Palm, clarif., dms. lb. .1500- .1600
Palmarosa, cns. lb. 8.50 -10.00
Paraffin, pale, 100-110 vis., at 100°F, tanks, East Coast refy. gal. .14 - —

Oil, patchouli, dms. lb. 6.25 - 8.75
Peach kernel, USP (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .15 - .15½
refd., dms. lb. .20¾- .21
tanks lb. .18¾- —
Pennyroyal, USP, imported, cns. lb. 2.75 - 3.50
Peppermint, nat., dms. lb. 6.25 - 7.50
redist., USP, dms. lb. 6.75 - 8.50
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, cns., dms lb. 3.35 - 3.50
Pimento, berry, NF, dms. lb. 4.50 - 5.00
leaf, cns. lb. 2.05 - 2.60
Pine, dest.-dist., dms., l.c.l., works, lb. .12¼- —
ex whse. lb. .14¼- —
steam-dist., dms., ex whse, N.Y.C lb. .176 - —
dlvd. lb. .179 - —
Pineneedle, Siberian (see Oil, abies siberica).
Rapeseed, tankcars lb. .22 Nom.
Red (see Acid, oleic).
Rice bran, clarif., dms., l.c.l. lb. .18 Nom.
tanks, dlvd. E. lb. .15 Nom.
Rose, nat., Bulgarian, bots. oz.43.00 -57.00
Rosemary, Spanish, USP, cns., dms lb. .60 1.00
tech., cns., dms lb. .50 .70
Rue, bots. lb. 2.00 2.50
Safflower, dms., c.l., N. Y. lb. .1785- .1838
tanks, same basis lb. .1585- —
Sage, clary, bots. lb.18.75 -19.00
Dalmatian, cns. lb. 4.10 - 4.65
Spanish, cns. lb. 1.20 - 1.45
Sandalwood, NF, cns. lb.13.50 - —
Sardine, crude, tanks, Pac. coast. lb .08½- .09
Sassafras, artif., dms. lb. .48 - .60
nat., dom., USP, dms. lb. 1.45 2.10
imp., Brazilian (see Oil, ocotea cymbarum).
Savin, cns. lb. 2.75 - —
Savory, cns. lb. 4.25 - —
Sesame, refd., dms. lb. .38 - .39
Shingle stain, tar distillate, dms., c.l., works gal. .35 - —
l.c.l., works gal. .44 - —
tanks, works gal. .23 - —
Snakeroot, Canada, cns. lb.27.50 -31.00
Soybean, crude, tanks, Decatur. lb. .11⅝- —
foots soapstock, acid, 95% tanks, N. Y. lb. .05¾- —
refd., alkali, dms. lb. .1608- .1628
tanks lb. .1408- —
clarified, dms. lb. .1558- .1598
tanks lb. .1358- —
salad, dms. lb. .1638- .1663
tanks lb. .1438- —
Spearmint, USP, dms. lb. 4.50 5.60
Sperm, bleached winter, 45° dms. lb. .1675- .1725
tanks lb. .1500- —
nat., winter, 45°, dms. lb. .1575- .1625
tanks lb. .1400- —
Spruce, cns., dms. lb. 2.10 - 2.75
Sweet birch, USP, Northern, cns. lb 4.25 9.50
Southern, cns. lb. 2.30 - 2.75
Tall, crude, dms., c.l., works lb. .03¾- .04⅛
tanks, works lb. .02½- —
dist., dms., c.l., works lb. .07½- —
l.c.l., works lb. .07¾- —
tanks, works lb. .06¼- —
refd., dms., c.l., works lb. .06½- .06¾
lb. .06½- .06¾
l.c.l., works lb. .06¾- .07¼
tanks, works lb. .05¼- .05⅝
Tallow, acidless, dms., c.l. lb. .13½- —
l.c.l. lb. .14½- .16
Tangerine, Floridian, dms. lb. 2.00 3.80
Tansy, dms. lb. 7.50 - 8.40
Tar acid (see T's).
Pine, comi., dms., c.l., works lb. .0561- —
l.c.l., works lb. .0634- —
whse lb. .0745- —
tanks, works lb. .046 - —
rectified, NF, dms., incl., l.c.l., works, South gal 1.05 - —
ex whse., N. Y. C gal. 1.15 - —
refd., dms., incl., works, l.c.l. gal. .92 - —
N. Y. whse. gal. 1.02 - —
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms. lb. 1.45 - 1.75
white, cns. lb. 1.70 - 2.00
tech., white, cns lb. 40 1.85
Tung, dms., c.l., N. Y. lb. .24¾- —
l.c.l., same basis lb. .25¼- .25¾
tanks, N. Y. lb. .23 - .23⅛
domestic mills lb. .24 Nom.
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns., dms. lb. .28 .45
Vetiver, Bourbon, cns. lb.11.75 -11.90
Haitian, cns. lb. 9.25 -11.00
Java, cns. lb.18.50 -20.00
Wheat, germ, 5-gal. dms. gal.11.20 - —
White mineral, tech., 50-65 vis., non-ret. dms. c.l., f.o.b. N. Y. gal. .55 - —
65-75 vis., non-ret., dms., c.l., same basis gal. .56 - —
l.c.l., same basis gal. .61 - —
80-90 vis., non-ret., dms., c.l., same basis gal. .57 - —
l.c.l., same basis gal. .62 - —
135-138 vis., non-ret. dms., c.l., same basis gal. .63 - —
l.c.l., same basis gal. .68 - —
145-155 vis., non-ret. dms., c.l., same basis gal. .69½- —
l.c.l., same basis gal. .74½- —
USP, 180-190 vis., non-ret. dms., c.l., same basis gal. .71 - —
l.c.l., same basis gal. .76 - —
200-210 vis., non-ret. dms., c.l., same basis gal. .75 - —
l.c.l., same basis gal. .79 - —
345-355 vis., non-ret. dms., c.l., same basis gal. .78½- —
l.c.l., same basis gal. .84½- —
Wintergreen, USP, nat., Northern, cns. lb. 6.35 -10.30
Southern, cns. lb. 3.20 -19.50
syn. (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed (see Oil, Chenopodium, NF).
Wormwood, cns. lb. 5.50 - 6.85
Ylang-ylang, Bourbon, bots. lb.14.00 -16.00
extra, bots. lb.28.00 -40.00
Madagascar, bots. lb. No stocks
Oleostearine, dms. lb. .12 - .12¼
Opium, USP, cns. oz.19.20 -19.45
gran., USP, cns. oz.21.65 -21.90
powd., USP, cns. oz.21.65 -21.90
Orange cadmium-selenide lithopone, light shade, bbls., frt. alld. E. of Rockies lb. 1.80 - —
deep shade, bbls. lb. 2.00 - —
Cadmium-mercury lithopone, deep shade, bbls. lb. 1.78 - —
Chrome, CP, bbls., dlvd. N. of Tennessee and N.C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .33 - .33⅛

Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. Pac. Coast for Denver, Pueblo, Salt Lake City. Wichita prices are equalized with Chicago.

Dinitroaniline toner CP. lb. 1.45 - —
Mineral, American, bbls., l.c.l., works lb. .2235- —
Molybdated, bbls. lb. .46 - .46¼
o-Nitroaniline toner, kegs. lb. 1.15 - —



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What sets your product above your competitor's? FLAVOR! However you use Oil of Lemon, the flavor of your finished product is the most important consideration.

When something so important costs so little, doesn't it make good sense to buy the best? And the best Oil of Lemon is Exchange Brand, made only from *California and Arizona* lemons—grown and skillfully processed by the Sunkist Growers, the people who know citrus best.

Be sure you don't get adulterated, watered-down lemon flavor.

Ask your supplier to insist on Exchange Brand Oil of Lemon, the *4-to-1 favorite* over all other lemon oils *combined*.

Sunkist Growers

PRODUCTS DEPARTMENT
ONTARIO, CALIFORNIA

Distributed in the U.S. and Canada by

DODGE & OLCOTT, INC.
180 Varick St., New York 14, N. Y.

FRITZSCHE BROTHERS, INC.
76 Ninth Ave., New York 11, N. Y.

UNGERER & COMPANY, INC.
161 Avenue of the Americas, New York 13, N. Y.

Exchange ®

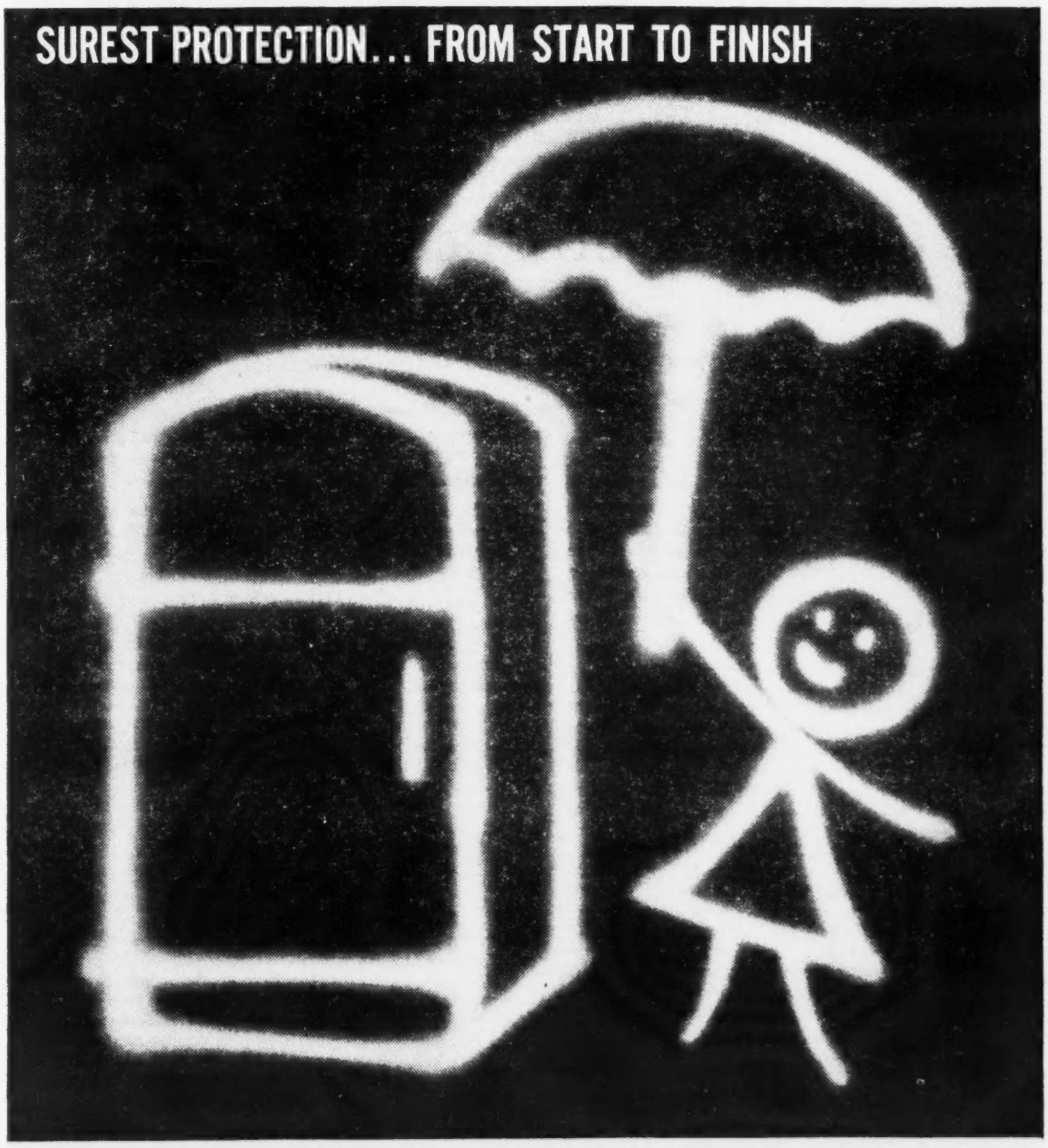
OIL OF LEMON, U.S.P.

Inquiries from countries other than the U.S. and Canada should be directed to the Products Department, Sunkist Growers.

Orange peel, bitter, Haitian, bls	lb.	.14	.16
sweet, bls.	lb.	.16	.18
Orris root, Florentine, bls.	lb.	.55	—
powd., bbls., bxs.	lb.	.68	—
Verona, bls.	lb.	.35	.40
powd., bbls., bxs.	lb.	.45	—
Orthoaminobiphenyl (see o-Aminobiphenyl)			
Orthoanisidin (see o-Anisidine).			
Orthochloroanilin (see o-Chloroaniline).			
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde)			
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).			
Orthochlorophenol (see o-Chlorophenol).			
Orthocresol (see o-Cresol).			
Orthodichlorobenzene (see o-Dichlorobenzene).			
Orthonitroanilin (see o-Nitroaniline).			
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).			
Orthonitrobiphenyl (see o-Nitrobiphenyl)			
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).			
Orthonitrophenol (see o Nitrophenol).			
Orthonitrotoluene (see o-Nitrotoluene).			
Orthophenetidin (see o-Phenetidine).			
Orthophenylphenol (see o-Phenyl phenol).			
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).			
Orthotolidin (see o-Tolidine base).			
Orthotoluidin (see o-Toluidine).			
Osage, orange, cryst., No. 1, bbls. l.c.l.	lb.	.40	—
extract, liq. No. 1, bbls., l.c.l.,	lb.	.19	—
Ouabain, USP, bots	gram.	3.00	4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works	lb.	4.75	5.00
smaller lots, works	lb.	4.92	5.17

P

Papain, USP, African, bots	lb.	3.50	4.00
Ceylon	lb.	3.00	3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25-oz. to 100-oz. lots	oz.	5.00	—
smaller lots	oz.	5.05	5.20
Sulfate cns.	oz.	7.10	7.35
Paprika, Roumanian, bgs.	lb.	26	—
Spanish, bgs.	lb.	.33	.38
Yugoslavian, bgs.	lb.	.37	—
Para-aminophenol (see p-Aminophenol).			
Para-anisidin (see p-Anisidine).			
Parachloro-orthonitroanilin (see 4-Chloro-2 nitro			
Parachloranilin (see p-Chloraniline).			
aniline).			
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).			
Parachlorophenol (see p-Chlorophenol).			
Paracresol (see p-Cresol).			
Paradibromobenzene (see p-Dibromobenzene).			
Paradichlorobenzene (see p-Dichlorobenzene).			
Paraffin, crude, scale, white, 123°-127°F, ASTM, tanks, refy.	lb.	.0710-	—
fully refd., 122°-124°F, ASTM, tanks, refy	lb.	.0815-	—
125°-127°F, ASTM, tanks, refy	lb.	.0815-	—
130°-132°F, ASTM, tanks, refy	lb.	.0815-	—
132°-134°F, ASTM, tanks, refy	lb.	.0815-	—
135°-137°F, ASTM, tanks, refy	lb.	.0815-	—
AMP temperatures are an arbitrary 3°F higher than ASTM.			
Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld	lb.	.1075-	—
l.c.l., frt alld	lb.	.1275-	.1375
powd., bgs., c.l., frt. alld	lb.	.15½-	—
l.c.l. frt. alld	lb.	.17	—
USP, X, fib, dms., c.l.	lb.	.183	—
1,000-lb. lots	lb.	.193	—
smaller lots	lb.	.203	—
Paraldehyde, tecn., 98%, 55-gal. dms., c.l., works	lb.	.14	—
l.c.l., works	lb.	.15	—
tanks, works	lb.	.11½-	—
Paranitroanilin (see p-Nitroaniline).			
Paranitrochlorobenzene (see p-Nitrochlorobenzene).			
Paranitrotoluene (see p-Nitrotoluene).			
Paranitrophenol (see p-Nitrophenol).			
Paraphenetidin (see p-Phenetidine).			
Paraphenylenediamine (see p-Phenylenediamine).			
Paraphenylphenol (see p-Phenylphenol).			
Para-tertiary-amylphenol (see p-tert-Amylphenol).			
Para-tertiary butylphenol (see p-tert-Butylphenol).			
Parathion, spray powder, 15%, dealers, bgs., dms., frt. alld	lb.	.50	.53
tech., dms., c.l., t.l., works	lb.	1.3395-	—
l.c.l., works	lb.	1.51	—
Paratoluenesulphonamide (see p-Toluenesulfonamide).			
Paris green, dealer, dms., c.l., frt. alld	lb.	.44	.47
l.c.l., same basis	lb.	.45	.48
Passion flower herb, bls.	lb.	.25	—
Peanut meal, 45%, old process, bgs., mills	ton.	55.00	Nom.
Pectin, citrus, NF, powd., bbls	lb.	2.05	2.06
tech., powd., bbls.	lb.	1.25	—
imported, Danish, ex whse	lb.	1.28	—
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units.		.0475-	.0520
Procaine bulk 1,000,000 units.		.0475-	.0520
Sodium, sterile, bulk, 1,000,000 units.		.0475-	.0520
Pentachlorophenol, dms., c.l., t.l., works, frt. equald	lb.	.22	—
l.c.l., same basis	lb.	.23½-	.30
Pentaerythritol, tech., bgs., c.l., works	lb.	.32	—
l.c.l., works	lb.	.33	—
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).			
Pentane, indust., tanks., Tex. refy.	gal.	.13	—
Pepper, black, Malabar, spot, bgs	lb.	.31½-	—
red, Gondar, spot, bgs.	lb.	No prices.	
Japanese, hontaka, bgs.	lb.	.33	.34
birdseyes, bgs., new crop	lb.	No prices.	
Mombasa, bgs., shipt	lb.	.56	.57
Nigerian, bgs.	lb.	.29½-	—
Turkish, bgs.	lb.	.28	—
white, bgs	lb.	.35	.36
Peppermint leaves, USP, dom., bls., imp., bls	lb.	.95	—
dms.	lb.	.70	.75
Perchloroethylene, dms., c.l., or truckloads, dlvd	lb.	.13	—
l.c.l., dlvd.	lb.	.14½-	—
tanktruck, 1,000 gal., min. dlvd	lb.	.12	—
tanks dlvd.	lb.	.11½-	—
Peru balsam, dms	lb.	1.35	—
extra amber, dms., c.l., refy	lb.	.06¼-	.06⅞
l.c.l., dlvd.	lb.	.07⅜-	.08
tanks, refy.	lb.	.08¼-	.05⅛
cream, dms., c.l., refy	lb.	.07⅛-	.08⅛
l.c.l., dlvd.	lb.	.09½-	.09¾
tanks, refy.	lb.	.05⅜-	.06⅜
Petrolatum, extra amber, dms., c.l., refy.	lb.	.06¼-	.06⅞
l.c.l., dlvd.	lb.	.08	.08¼
tanks, refy.	lb.	.04½-	.05⅜
USP, white, lily, dms., c.l., refy.	lb.	.07⅜-	.08¼
l.c.l., dlvd	lb.	.09⅞-	.10⅛
tanks, refy	lb.	.05⅞-	.07
snow, dms., c.l., refy	lb.	.08½-	.08¾
l.c.l., dlvd.	lb.	.10¾-	.10⅝
tanks, refy.	lb.	.06⅜-	.06⅞
Petrolatum, USP, yellow, soft, dms., c.l., refy.	lb.	.06¼-	.06¾
l.c.l., dlvd.	lb.	.07⅛-	.08⅛
tanks, refy.	lb.	.04½-	.06⅛
Petroleum, lacquer diluent, 150°-240°F, b.r., tanks, West Coast, ex tax, Los Angeles.	gal.	.169	.204
East coast, N. J., N. Y.	gal.	.19	—
Group 3, benzol-type	gal.	.14125-	.14625
toluol-type	gal.	.13125-	.13375
Mineral spirits, reg., tanks, Calif., ex tax, San Francisco	gal.	.164	—
East coast, N.J., N.Y.	gal.	.17	—
Group 3	gal.	.11875-	—
tankwagon, Boston	gal.	.19	—
Buffalo	gal.	.195	—
Chicago	gal.	.279	—
Cleveland	gal.	.22	—
Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
Pittsburgh	gal.	.18	—
Providence	gal.	.195	—
odorless, tanks, refy., Watson, Cal.	gal.	.245	—
Borger, Tex.	gal.	.24	—
Houston, Tex.	gal.	.24	—
Wood River, Ill.	gal.	.2625-	—
N. J., dlvd	gal.	.32	—
N. Y., dlvd	gal.	.33½-	—
tankwagon, N. J., dlvd	gal.	.36	—
N. Y., dlvd.	gal.	.37	—
Naphtha, cleaners, tanks, East Coast, N. J., and N. Y.	gal.	.17	—
Group 3	gal.	.12875-	—
tankwagon, Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
High solvency (see Petroleum solvent, partial aromatic).			
Petroleum naphtha, VM&P, 225°-300°F., b.r., tanks, West Coast, Los Angeles	gal.	.169	—
Portland, Ore	gal.	.175	—
San Francisco	gal.	.174	—
Seattle, Wash	gal.	.175	—
East Coast, N. J. and N. Y	gal.	.18	—
Group 3	gal.	.12875-	—
tankwagon, Boston	gal.	.205	—
Chicago	gal.	.289	—
Cleveland	gal.	.23	—
Newark	gal.	.195	—
New York	gal.	.195	—
Philadelphia	gal.	.20	—
Pittsburgh	gal.	.19	—
Solvent, partial, aromatic, tanks, 205°-282°F., b.r., 41°C., m.a.p., N. Y., N. J	gal.	.245	—
212°-278°F b.r. 43°C m.a.p., N. J	gal.	.26	—
212°-284°F b.r. 19°C. m.a.p., N. J	gal.	.29	—
224°-280°F., b.r., 48°C. m.p.a., Houston	gal.	.215	—
273°-361°F b.r. 29°C. m.a.p., N. J	gal.	.29	—
282°-325°F b.r., 41.5°C. m.a.p. Houston	gal.	.25	—
287°-386°F., b.r., 31°C., m.a.p., N. J.	gal.	.29	—
310°-314°F., b.r., 13.5°C., m.a.p., Texas City	gal.	.33	—
310°-348° b.r., 17°C., m.a.p., N. Y., N. J	gal.	.35	—
320°-360°F., b.r., 16°C., m.a.p., N. Y., N. J	gal.	.33	—
Petroleum solvent, partial aromatic, tanks, 324°-349°F, 37 C, m.a.p., Houston	gal.	.33	—
341°-390°F., b.r., 35°C., m.a.p., N. J	gal.	.27	—
352°-413°F., b.r., 30°C., m.a.p. Houston	gal.	.33	—
358°-401°F., b.r., 25°C., m.a.p., N. Y., N. J.	gal.	.39	—
364°-404°F b.r., 19°C. m.a.p., N. Y., N. J	gal.	.425	—
367°-418°F b.r. 19.6°C m.a.p. N. Y., N. J	gal.	.33	—
Rubber, tanks, Cal., ex tax, San Francisco	gal.	.173	—
East Coast N. J., N. Y.,	gal.	.18	—
Group 3	gal.	.12875	—
Stoddard, tanks, East Coast, N. J., N. Y	gal.	.17	—
Group 3	gal.	.12375	—
Pennsylvania western	gal.	.15	—
tankwagon, Boston	gal.	.19	—
Chicago	gal.	.289	—
Cleveland	gal.	.22	—
Los Angeles, ex tax	gal.	.194	—
Newark	gal.	.18	—
New York	gal.	.18	—
Philadelphia	gal.	.185	—
Pittsburgh	gal	.18	—
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret. dms., c.l., works	lb.	.16½-	.18¾
l.c.l. works	lb.	.17½-	.19
tanks, works	lb.	.14½-	.17



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PETROLEUM SOLVENTS

Petroleum sulfonate, oil-soluble 50-55% sulfonic content, nonret. dms., c.l., works lb. .16 - —
l.c.l., works lb. .17 - —
tanks, works lb. .13 - —
o-Phenetidine, dms., t.l., frt. alld. E lb. .91 - —
l.c.l., same basis lb. .93 - —
p-Phenetidine, dms., c.l., frt. alld. lb. 1.00 - —
l.c.l., same basis lb. 1.03 - —
Phenobarbital, USP, dms., 100-lb lots lb 3.50 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb 3.50 - —
Phenol, 90-92% (cresol 8-10%), nonret. dms. c.l. frt alld E. of Rockies lb. 17¾- .18
l.c.l., same basis lb. .18¼- .19
tanks, same basis lb .16 - —
Phenol, 82-84% (cresol 16-18%), nonret. dms., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .15½- —
39°C or above, tar distilled, nonret. dms., c.l., same basis. lb. .19¼- .19½
l.c.l., same basis lb. .19¾- .20½
tanks, same basis lb. .17½- —
USP, syn., dms., c.l., t.l., frt. alld lb. .20 - —
l.c.l., same basis lb. .22 - —
tanks, same basis lb. .18 - —
Phenolphthalein, USP or yellow, bbls., dms., 2,000-lb lots, lb 1.10 —
smaller lots lb 1.12 1.17
Phenothiazine, NF, fib. dms., c.l., frt. adjusted lb. .39 - —
over 2,100 lbs., same basis lb. .41 - —
less than 2,100 lbs., same basis. lb. .43 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde, soln., 50%, bots lb 2.40 2.70
100%, bots lb 4.00 4.65
dl-Phenylalanine, dms. works lb 27.00 37.50
1-Phenyl-3-carnethoxy pyrazolone-5, 250-lb. fib. drms., dlvd. E lb 3.60 —
smaller dms. dlvd E lb 4.00 —
N-Phenyldiethanolamine, dms., c.l., dlvd. E lb. 40½- —
l.c.l., dlvd. E lb. 41½- —
tanks, dlvd. E lb. 38½- —
m-Phenylenediamine dms. frt. alld. lb. 83 - —
o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works lb 1.70 1.80
p-Phenylenediamine, refd., tech., dms., works lb. 1.42 —
Phenylethanolamine, dms., t.l., works lb. 75½- —
l.c.l., same basis lb. 76 - —
Phenylethyl acetate, bots lb. 1.25 1.60
Phenylhydrazine base, CP bots lb 3.00 3.02
Hydrochloride coml. kgs., works. lb 1.75 —
purif., bots., works lb. 5.17 —
1-Phenyl-3-methyl pyrazolone-5, 250-lb. lots, dlvd. E lb. 1.80 - —
smaller lots, dlvd lb. 2.10 - —
Phenylethylphenyl acetate, bots. lb. 4.15 - 4.35
o-Phenylphenol, dms., l.c.l., works. lb. .42 - .44
p-Phenylphenol, bgs., c.l., works lb. .37 - —
l.c.l., works lb. .41½- —
Phloroglucinol, coml., fib. dms., works lb. 6.40 - —
C.P., bots., works lb.17.75 - —
tech., fib. drums., works lb.10.45 - —
Phosphate, defluorinated (see under D)
Rock, Curacao, Atlantic ports, New Orleans ton.45.00 - —
Florida, land pebble, run-of-mine, washed, dried unground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines long-ton. 4.94 4.99
70-68%, b.p.l., c.l., same basis long-ton. 5.34 5.39
72-70%, b.p.l., c.l., same basis long-ton. 5.99 - —
75-74%, b.p.l., c.l., same basis long-ton. 6.99 - —
78-76%, b.p.l., c.l., same basis long-ton. 7.99 - —

The Florida prices (above) are based on fuel oil at $2.47 per bbl. and labor at $1.43. Recent oil advance currently absorbed.

Phosphorus, amorph, red, dms., t.l., works lb. .48 - —
smaller lots, works lb. .49 - .50
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 - .20½
l.c.l., works, frt. equald. lb. .21½- —
tanks, works, frt. equald. lb. .19 - —
Phosphorus oxychloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Pentasulfide, solid, dms., c.l., works lb. .11½- —
l.c.l., works lb. .12½- —
Pentoxide, dms., c.l., works lb. .13½- —
l.c.l., works lb. .16½- —
Sesquisulfide, tins, cs., c.l., works. lb. .38 - —
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tankcars, works lb. .12¼- —
Phthalic anhydride ogs, c.l., works, frt. equald lb. .20 - .21
l.c.l., same basis lb. .21 - .22
tanks, same basis lb. .19½- .20½
Phthalimide, 97%-98%, dms., frt. equald lb. .65 - —
Phthalylsulfacetamide, 1,000-lb. lots or more lb. 5.00 —
NF lb. 5.20 - —
a-Picoline, ret. dms., c.l., works, frt. equald lb. .43 - .43½
l.c.l., works, frt. equald lb. .44 - —
tanks, same basis lb. .415 - .422
b,g-Picoline, 5°C. dms. c.l., works. lb. 32½- —
l.c.l. works lb .33 —
g-Picoline 98% dms., works lb. 2.00 —
Pilocarpine hydrochloride USP bots oz. 4.75 5.25
Nitrate, USP, bots., vials oz 4.65 4.75
Pimento, Jamaican, bgs lb. 72 - —
Mexican, bgs lb. .58 - —
Pink root, bls lb. 2.50 - —
d-Piperazine hexahydrate, French Codex bots kilo 8.00 8.50
Piperidine dist. dms frt equald lb 2.60 2.70
Piperonyl butoxide, dms. dlvd E lb 4.30 5.05
Cyclonene dms., dlvd E lb 3.70 4.25
Pitch, coaltar, 150°-170°F. m.p., tanks, works ton.37.00 - —
Cottonseed, raw, dms., works lb. .03 - .03¼
tanks lb. .02¾- —
Linseed, dms lb. .06 - .06¾
Marine, dms lb. .04¼- .05
Petroleum (see Asphalt, petroleum).
Soybean, dms., works lb. .05 .05½
Tall, tanks, works ton.30.00 -40.00
dms., c.l., works ton.50.00 -70.00
Plaster of Paris (see Gypsum).
Platinum metal, works oz.105.00 -107.00
Pleurisy root, bls lb 45 .50
Podophyllum resin, NF, dms. lb.16.10 - —
Poke root, bls lb. 19 .22
Polymyxin, bulk, bots. dms., 50 billion units or more, 1,000,000 units. .52 —
25-50 billion units 1,000,000 units. .54 - —
1-25 billion units 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms. 20,000-lb lots, works lb. 41 - —
10,000-20,000-lb lots, works. lb. 43 - —
smaller lots works lb. 46 48
tristearate, dms., 20,000 lb. lots, works lb. .41 - —
10,000-20,000 lb lots, works. lb. .43 —
smaller lots, works lb. 46 48
Poppy seed, Argentine, bgs lb. .25 - —
Dutch, bgs. lb. .33 - —
Iranian, bgs lb. .14½- .15
Polish, bgs. lb. .22½- .23
Turkish, bgs. lb. No prices.
Potash, caustic reg. flake, 88-92% dms., c.l., works 100 lbs. 9.15 - —
l.c.l., works 100 lbs.10.20 - —
liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works. 100 lbs. 8.70 - —
l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF dms lb. .31 .36
Bicarbonate, USP, gran., dms lb. .22 - —
powd. dms lb. .24 —
Bichromate, gran., bgs., c.l., t.l., works lb. .18 - —
l.c.l., works lb. .18½- .19¾
Potassium bichromate in dms ½c. higher.
Bitartrate, NF, doms., gran. or powd., bbls., 5,000 lbs., 1 ship't lb. .38½- —
dms., c.l. lb. .38 - —
smaller lots lb. .39 - .42
imp. kgs. lb. .29 —
Bromate, dms., 1,000 lbs. or more, lb. .50 - —
25-200 lb lots lb. .52 - .62
Bromide, USP, gran., bbls., kgs lb. .37 - .38
Carbonate, NF, gram., bbls., dms. lb. .20 - —
powd., bbls., dms lb. .21 - .22
tech., calcined, bbls., c.l., works. 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs.10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Chlorate, cryst., dms., c.l., works. lb. .10¼- —
l.c.l., works lb. .10½- .11½
powd., dms., c.l., works lb. .10¾- —
l.c.l., works lb. .11 - .12
NF, gran., 25-lb metal dms lb .35 - —
Chloride, agricultural (see Potassium muriate).
indust., 99.9% KCl, bulk, c.l., works ton.29.00 - —
bgs., c.l., works ton.33.50 - —
99.3% KCl, bulk, c.l., works. ton.27.00 - —
bgs., c.l., works ton.31.50 - —
USP, cryst., dms lb. .21 - .23
gran., dms lb. .15 - .17
powd., dms lb. .24 - .26
Chromate, tech., bgs. lb. .50 - .50½
Citrate, USP, gran., dms lb .43 - —
powd., dms lb. .40½- .41½
Cyanide, dms., 20,000-lb. lots or more, works lb. .45 - —
2,000-19,999-lb. lots, works lb. .455 - —
smaller lots, works lb. .465 - —
Dichromate (see Potassium bichromate).
Ferricyanide, dms., ton lots lb. .50 - —
Ferrocyanide, bgs., ton lots lb. .22½- —
smaller lots lb. .23 - —
Fluoborate, fib. dms., c.l., works. lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .37 - .38
Gluconate, dms. lb. 1.60 - —
Guaiacolsulfonate, NF, dms lb. 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½- .33
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.00 - 1.03
Iodide, dms lb. 1.90 - 1.95
Metabisulfite, gran., dms. lb. .20 - .21
powd., dms lb. .25 - —
Muriate, standard and granular, 59-63% K2O, bulk, c.l., works, base price unit-ton. .36 - —
July forward unit-ton. .38 - —
granular, 60-63% K2O, bgs., c.l., works, base price ton.26.25 - —
July forward ton.27.45 - —
Nitrate, cryst., bbls., 20-ton lots. 100 lbs.14.40 - —
smaller lots 100 lbs.14.65 -14.90

Does chelation actually represent a new kind of chemistry? Are the possibilities as exciting as many seem to think? This series endeavors to answer these—and many other—pertinent questions on this fascinating subject. It is hoped chemists, engineers and purchasing agents alike will find these answers helpful. Now on to . . .

DOW

The Chemistry of Chelation: Part II

Versene and Versenol Series · Descriptions and Uses
A measure of Value · A Suggestion

To review in capsule form: Part I introduced chelation, offered examples of typical chemical reactions, applications, and discussed future possibilities. You will remember that a chelating agent is defined as a chemical which surrounds metallic ions with a multiple-ring structure that keeps the metal chemically inactive and holds it in solution. The applications in industry are many—and new ones are being found almost daily. That, of course, brings us to another consideration: different chelating agents for different uses.

VERSENE® AND VERSENOL®

Chelating agents are commercially available from Dow as 15 different products—all based on aminocarboxylic acid derivatives. Among these, wide spectrum performance is shown by two series of products. The Versene series of products (Versene® 67, Versene 100, Versene Powder, Versene Beads, Versene 9 and Versene Acid) is based on EDTA* and the sodium salts of this material. The Versenol series (Versenol® 120, Versenol Powder and Versenol Beads) consists of various physical forms of Na_3 HEDTA**. The Versene series, except for Fe+++ in the alkaline pH range, is generally the stronger series of the two (more completely chelates the last traces of metal). The Versenol series is notably stronger for Fe+++ in the mildly alkaline pH range and is usually cheaper on a performance basis if the consumer can tolerate the weaker chelate structure. Versene is the strongest, most stable commercially available chelating agent. It is the one with the greatest number of successful applications.

DESCRIPTIONS AND USES

Here are three Dow chelating agents together with their descriptions and uses:

Versene 100 is a concentrated aqueous solution of a technical grade of the tetrasodium salt of EDTA . . . widely used in textile processing, detergent formulations and metal cleaning.

Versene Acid is a dry form of EDTA technical. It is used in many operations as a raw material for the preparation of various derivatives, such as metal chelates, salts (K, NH_4), esters and many others.

Versenol 120 is a concentrated aqueous solution of a technical grade of Na_3 HEDTA. It is also very valuable to detergent, textile and metal-cleaning processes.

Naturally these three specific agents are not the answer to *every* problem. That's the reason for the many other Versene products, to be discussed in Part III.

A MEASURE OF VALUE

A measure of the broad performance capacity of a chelating agent can be obtained from its *chelation value*—determined on a reference metal. Calcium is used as the reference metal under the standard test proceedure accepted by the industry. Dow prefers this "performance basis". It specifies more clearly what chelating agents *actually accomplish* than such terms as "% solids" and "% active". Consequently, the "100" in Versene 100 means that one gram of this product will chelate 100 milligrams of calcium carbonate in accordance with the standard test procedure. By the same token, one gram of Versene 67 will chelate 67 milligrams, and so on.

A SUGGESTION

Two closing thoughts: Dow wants to help in any way possible to further develop the applications for chelation. Also important, Dow would like to hear from *you*—your thoughts, reactions, suggestions. Please inquire about any problems or ideas you may have. Information or actual technical assistance will be forthcoming promptly. Write, on your company letterhead, to Technical Service and Development, Dept. SC 912P-2 THE DOW CHEMICAL COMPANY, Midland, Michigan.

THE NEXT TWO TOPICS IN THIS SERIES

PART III *July August September* — Specific chelating agents for specific applications (agent for iron control depends on pH—Versene Fe-3 Specific® for iron and transition metals on the alkaline side, Versene T® for iron in presence of free caustic—other solutions to special problems).

PART IV *October* — Applications in specific industries (formulation of alkaline cleansers—stabilization of hydrogen peroxide and Kier boiling in textile processing—uniform control of trace metal catalysts in polymerization of synthetic rubber—other industrial applications).

*Pentasodium salt of ethylenediaminetetra acetic acid

**Trisodium salt of N-hydroxyethylethylenediaminetriacetic acid

you can depend on DOW CHEMICALS

DOW

Potassium nitrate, gran., bbls., 20-ton lots..100 lbs. 9.75 - —
smaller lots ..... 100 lbs.11.10 -11.50
powd., bbls., 20-ton lots.100 lbs.10.75 - —
smaller lots ..... 100 lbs.12.00 -12.50
USP, gran., dms. ..... lb. .18 - —
Potassium nitrate in bags 50c. per 100 lbs less in kegs, $1 more.
Oxalate, neutral, tech., fine gran., bbls., dms lb. .30 - .31
Pentaborate, gran., bgs., c.l., works, ton.191.50 - —
dms., ton lots, ex whse ton.198.00 - —
smaller lots, ex whse ton.302.50 - —
Powdered potassium pentaborate $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .18½ - —
l.c.l., works ..... lb. .19 - .20
Permanganate, coml., kgs., works, lb. .24½ - .27½
USP, dms., works ..... lb. .27¼ - .29
Persulfate, bbls., c.l., works lb. .16½ - —
dms., 5-ton lots, works ..... lb. .18 - —
1-ton lots, works ..... lb. .20 - —
Pyrophosphate, tetrabasic, dms., works lb. .15½ - .18½
Prussiate red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass bgs., c.l., works, 100 lbs.17.00 -17.30
l.c.l., works ..... 100 lbs.17.80 - —
soln., clarif., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
t.c.l., 5 dms. or more works 100-lbs. 6.55 - 6.95
tanks, works 100-lbs. 5.45 - —
electrical grade, 29° Be, 1:2.0 dms., c.l., works 100 lbs. 6.50 - —
t.c.l., 5 dms. or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works 100 lbs. 6.45 - —
t.c.l., 5 dms. or more works 100 lbs. 7.20 - 7.60
Silicofluoride, bgs., works ..... lb. .09½ - .10
Potassium silicofluoride in drums, 0.4c. per lb. higher
Stannate, dms., frt. alld. E lb. .721 - .787
Sulfate agricultural, 50% K_2O, bulk, works, base price, unit-ton. .64 - —
July forward unit-ton. .67 - —
NF VII, cryst., dms ..... lb. .31 - .33
gran., dms. ..... lb. .18½ - —
powder dms. ..... lb. .16½ - .17
Sulfocyanate, NF, cryst., (see Potassium thiocyanate).
5-ton lots, works lb .14½ - —
1-ton lot or less, works lb. .14¾ - —
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works ..... lb. .77 - .79
Titanate, ctns., c.l., works lb. .14 - —
Toluene sulfonate, dms., c.l., or t.l., works lb. .42 - —
t.c.l., works lb. .46 - —
Potassium-magnesium sulfate, bulk, works, basis 40% K_2SO_4, 18% MgO base price ton.13.45 - —
July forward ton.14.00 - —
Potassium-sodium tartrate, NF, gran. powd., dms., c.l lb. .40½ - —
5,000-lb. lots ..... lb. .41 - —
smaller lots ..... lb. .41½ - .47
Potassium-titanium fluoride, tib. dms, works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms, c.l., works lb. .50 - —
t.c.l., works ..... lb. .52½ - .55
Pregnenolone, bots. ..... gram. .45 - —
Acetate, bots. ..... gram. .40 - —
Procaine hydrochloride, USP, dms. 1,000-lb. lots, frt. alld lb. 2.83 - —
100-500-lb. lots ..... lb. 2.95 - 3.15
Progesterone, USP bots., 100 gram lots gram .50 - —
Acetate, bots. ..... gram .70 - —
Propane, indust., tanks, group 3 gal. .05 - —
N. Y. Harbor ..... gal. .09 - —
l.c.l., dlvd. ..... lb. .13¾ - —
tanks, dlvd. ..... lb. .1075 - —
n-Propyl acetate, dms., c.l., dlvd lb. .12¾ - —
Gallate, dms., 100 to 2,000-lb. lots, works lb. 3.90 - 4.40
p-Hydroxybenzoate, USP, dms lb. 2.30 - 2.40
Propyl thiouracil, bots., 50-kilo lots or more kilo.55.00 - —
smaller lots kilo.55.10 -55.30
Propy thiouracil prices in West 1c. higher dlvd., on same basis.
Propylene dichloride, dms., c.l., dlvd. E lb. .09½ - —
l.c.l., same basis ..... lb. .10½ - —
tanks, same basis ..... lb .07 - —
Glycol, indust., dms., c.l., dlvd. E lb. .16 - —
l.c.l., same basis ..... lb. .17 - —
tanks, same basis ..... lb. .13½ - —
USP, dms., c.l., dlvd. E lb. .18 - —
l.c.l., same basis ..... lb. .19 - —
tanks, same basis ..... lb. .15½ - —
Methyl ether dms., c.l., dlvd lb. .20 - —
t.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½ - —
Oxide, dms., c.l., dlvd. E lb. ..... .17½ - —
t.c.l., dlvd. E ..... lb. .18½ - —
tanks, dlvd. E. ..... lb. .15½ - —
Psyllium seed, black, bgs. ..... lb. .55 - —
blonde, bgs. ..... lb. .18 - —
husks, bgs. ..... lb. .40 - —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots lb. .03⅝ - .04¼
smaller lots lb. .03⅛ - .04½
imp., Italian, silk-screen, coarse, bgs., ton lots lb. .06½ - —
fine, bgs., ton lots ..... lb. .04 - —
sun dried, coarse, bgs. ton lots lb. .02½ - .04
fine, bgs., ton lots ..... lb. .02½ - .04
Pumpkin seed, bgs ..... lb. .25 - .26
Pyrethrin, syn. (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb. .45 - —
powd., 1.3% pyrethrins, bbls., works lb. .65 - —
liq. 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms, works gal. 8.75 - 8.80
100/1 basis (10 grams pyrethrine per 100cc odorless base), dms., works gal.41.75 -42.75
oleoresin, dewaxed, 20%, dms., works lb.10.00 - —
purif., 20% dms., works lb.10.00 -10.10
Pyridine, denaturing, dms., c.l., works and frt. equald gal. 2.77 - —
l.c.l., same basis gal. 2.80 - —
refd., 2°, non-ret. dms., t.c.l., same basis lb. .75 - —
Pyridoxine hydrochloride, bots., 100-gram lots gram. .37½ - —
Pyrites, Canadian, works long-ton. 3.00 - 5.00
Pyrocatechol (see Catechol).
Pyrogallol, NF, dms. ..... lb. 3.27 - 3.30
Pyroxylin, scrap, ungrd., amber, dms., works lb. .20 - —
black, dms., works lb. .12 - —
mixed, mottled, dms., works lb. .13 - —
shavings, amber, cs., works lb. No stocks.
mixed colors, dms., works lb. .11 - —
white, china, ivory, dms., works lb. .16 - —
dense, opaque, dms., works, lb. .12 - .15
translucent pastels, cs., works, lb. .14 - —
colors, dms., works ..... lb 15 - —
USP, bots. ..... lb 9.50 - —

Q

Quassia chips ..... lb. .17 - —
Quebracho extract, clarif., grd., 70% tannin, bgs., c.l., lb. .16½ - .16¾
liq., 35% tannin, bbls., works, lb. .08¼ - .08½
solid., clarif., 64% tannin, bgs., c.l., exdock, duty extra lb. .12 23 64
ord. 63% tannin, bgs., c.l., same basis lb. .11 21/32 —
Quercitron extract, cryst., No. 1, bbls., l.c.l. lb. .40 - —
liq., No. 1, bbls. l.c.l lb .19 - —
Quicksilver (see Mercury metal).
Quince seed, bgs ..... lb. 2.00 Nom
Quinidine sulfate, USP, cns., 100-oz. lots oz. .73 - .75
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulfate, USP, cns., 100-oz. lots, oz. .37½ - —
Quinine ethylcarbonate, NF, cns., 100-oz. lots oz. .59 - .63½
Hydrobromide, NF, cns., 50-oz. cns. oz. .40 - —
Hydrochloride, cns., 100-oz. lots oz. .35 - —
Sulfate, USP, cns., 100-oz. lots oz. .29 - —
Quinoline dms., c.l., frt. equald lb. .50¾ - —
l.c.l., same basis ..... lb. .51¼ - —
tanks, same basis ..... lb. .50 - —

R

R salt, paste, dms., frt. alld., 100% basis lb. 88 - —
powd. frt alld. 100% basis lb. .98 - —
Rauwolfia serpentina root, powd., bbls., dms lb. 1.75 - —

Potassium Nitrate—Red, Phloxin Toner

Red, BON acid maroons, pure, bbls., lb. 1.75 - —
resinated, bbls lb 1.50 - —
arylid, deep shades, bbls lb. 3.60 - —
light shades, bbls lb 2.75 - —
maroon, bbls lb 3.60 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade, bbls., same basis. lb. 4.00 - —
medium shade, bbls., same basis lb. 4.25 - —
medium light shade, bbls., same basis lb. 4.05 - —
orange shade, bbls., same basis. lb. 3.95 - —
orange red, bbls., same basis. lb. 1.81 - —
Selenide lithopone, maroon shade, bbls., same basis lb. 3.77 - —
dark, bbls., same basis. lb. 3.90 - —
red shade, dark, bbls., same basis lb. 3.44 - —
light, bbls., same basis. lb. 2.24 - 2.32
medium, bbls., same basis lb. 2.99 - —
medium light, bbls., same basis lb. 2.49 - —
Mercury lithopone, dark shade, bbls., same basis lb. 2.40 - —
light shade, bbls., same basis. lb. 1.95 - —
Red, cadmium mercury lithopone, medium shade, bbls., same basis lb. 2.25 - —
medium light shade, bbls., same basis lb. 2.10 - —
Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar).
Eosin toner, bbls., works ..... lb. 1.65 - —
Indian, dom., pure, bgs., Bethlehem, Easton E St Louis, N. Y lb. .12¾ - —
Iron oxide, pat., 75-85% ferric oxide, bgs. l.c.l. Bethlehem Pa., Copley, O., Easton, Pa., bgs., c.l., works lb. .0675 - —
Lake C toner, alizarine, bbls., works lb. 1.13 - —
rubine toner, pure, bbls. works. lb 1.50 - —
resinated, bbls., works lb 1.40 - —
Virginia type, bbls., works lb 1.40 - —
Maroon toner, MNPT, kgs., c.l., works lb 3.60 - —
10,000-lb lots, works lb 4.22 - —
smaller lots, works lb 4.24 - —
Mercury oxide, tech., c.l., works. lb. 5.77 - —
Metallic, bbls., c.l., works lb 02½ - —
l.c.l., works lb 02¾ - —
Naphthol, ITR, bbls., works ..... lb. 5.25 - —
Oxide (see Red iron oxide).
Persian Gulf, bbls., c.l., works. lb. 07¾ - —
l.c.l., works ..... lb. .08 - —
Para toner, bbls ..... lb. 1.10 - —
chlorinated, kgs ..... lb 1.10 1.15
Phloxin toner (see Red eosin toner).

Sodium Tripolyphosphate

Tetrasodium Pyrophosphate
ANHYDROUS

Sodium Polyphos
(SODIUM HEXAMETAPHOSPHATE)
(SODIUM TETRAPHOSPHATE)

Trisodium Phosphate
CRYSTALLINE
MONOHYDRATE

Sodium Phosphates

Trisodium Phosphate
Chlorinated

Disodium Phosphate
ANHYDROUS
CRYSTALLINE

Monosodium Phosphate
ANHYDROUS
MONOHYDRATE

Sodium Acid Pyrophosphate

BLOCKSON CHEMICAL COMPANY
Division of Olin Mathieson Chemical Corporation
JOLIET, ILLINOIS

also major producers of:
SULFURIC ACID
SODIUM FLUORIDE
SODIUM SILICOFLUORIDE
HYGRADE FERTILIZER

TEOX 120
a nonionic surfactant

Red, Rhodamine—Sodium Citrate

Red, rhodamine, molybdated, PMA, kegs lb. 5.35 5.60
tungstated, PTMA, works kegs lb 6.40 —
Spanish oxide, bbls., c.l., ex-dock lb. .05¾- —
l.c.l., ex dock lb .06 —
ex whse., New York lb .06½- —
Toluidine toner, deep shades, kgs., works lb 1.62 1.65
light shades, kgs., works lb 1.62 1.65
Turkey, bbls., works lb. .62 - —
Tuscan, bbls., frt. equald lb. 26 .32
Venetian, jobbing, bgs., works lb 0475- —
20%, bgs., works lb. 0325- —
25%, bgs., works lb. 0375- —
30% bgs., works lb. 06 - —
35%, bgs., works lb. 0625- —
40%, bgs., works lb. 0675- —
Watchung-type, bbls m 1 95 —
Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide, red)
Red saunders, NF, powd. bbls lb .35 .40
Reserpine, cryst., bots gram. 3.75 - —
Resorcinol, tech. grade, dms., c.l., works, frt. equald lb 77½- —
l.c.l. same basis lb 78½- —
USP, dms., works lb 2.75 —
powd., dms., works lb 2.95 —
Monoacetate, NF, dms lb 3 00 3.25
Rhatany root, bgs lb .15 .16
Rhodinol, 5-lb. cans lb. 32.00 -36.00
Rhubarb root, India, whole, bgs. lb. .30 - —
powd., bbls lb. .38 - —

Riboflavin, USP, bots., dlvd kilo. 65.00 - —
readily soluble, bots., dlvd kilo. 130.00 - —
5'-phosphate-sodium, bots., 100-kilo lots or more kilo. 125.00 - —
Rochelle salt (see Potassium sodium tartrate).
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib. dms., works, unit-lb. .12 - —
resin, 25-45% fib dms., works, unit-lb. .12 - —
Rottenstone, bgs. 5-ton lots, ex-whse lb .03 —
ton lots, same basis lb .04 —
Rutin, NF, fib dms 25-kilo lots, kilo 17 50 -18 50
10 to 25-kilo lots kilo. 17 50 20 00
1 to 10-kilo lots kilo 18 90 20 00
Ryania, 100%, powd. bgs., c.l., works lb. .22 —
l.c.l. same basis lb .24 —

S

Sabadilla seed, powd., bbls lb. .49 - .49½
activated, ground with lime, bbls. lb. .30 .32
Saccharin, USP cryst., soluble, dms., 1000-lb. lots lb. 1.60 —
smaller lots lb. 1.70 1.80
powd., soluble, insoluble, dms., 1,000-lb. lots lb. 1.65 - —
smaller lots lb. 1.75 1.95
Calcium, fib dms. 1,000-lb. lots, works lb. 2.50 - —

Saffron, Spanish, USP, tins lb 45 00 - —
Safrol, dms lb. .90 - 1.05
Sage, Cretan, bgs lb. .11 - —
Dalmatian, bgs. lb. .44 - —
Italian lb. 26 Nom.
Sago flour, raw, bgs lb. .07 .07¼
refd., bgs lb. .08½- .09
Sal soda (see Soda sal)
Salicylamide, 100-lb. dms lb. 1.25 - —
Salol, NF, gran., bbls., kgs lb 1.15 - —
Powdered salol, 25c higher
Salt, rock, paper bgs., c.l. 100 lbs. 1.03½- —
table, vacuum, common, fine, paper bgs., c.l. 100 lbs. 1.27½- —
Saltcake, dom., bulk works, 100% Na2SO4 basis ton 28.00 —
Saltpeter (see Potassium nitrate)
Sandalwood, East Indies chips bgs .65 .66
powd., fib. dms lb .75 - .76
Schaeffer's salt, paste, dms., frt. alld. 100% basis lb .95 - —
powd. bgs., frt. alld. 100% basis lb .95 - —
Scopolamine hydrobromide, USP bots oz. 12.00 -16.00
Seidlitz mixture, bbls. 5,000-lb. lots lb .30½- —
smaller lots lb .31 .32
Selenium, powd., 99½%, dms., dlvd. lb. 13.50 -15.50
Senega root, bls lb. 2.75 - —
Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings lb. .17 - —
Tinnevelly, No. 1, bls lb. .16 - .18
No. 2, bls. lb. .13 - .15
No. 3, bls. lb. .11 - .13
powdered, bbls., bxs lb. .15 - —
pods, bls. lb. .14 - —
Serpentaria, root, bls lb 5.50 - —

Sesame seed, Egyptian, hulled, bgs. lb. .21 - —
nat., bgs. lb. .17 - —
Nicaragua, hulled, shipt., bgs. lb. .25 - —
nat., bgs lb. .16½- —
Salvadorian, natural, bgs lb. .17 - —
Indian, natural, bgs. lb. N.P.
Shellac, bleached, bonedry, bgs., 2,500-lb. lots lb. .56 - —
bbls., 1,500-lb. lots lb. .57 - —
kgs., 1,500-lb. lots lb. .58 - —
refd., bgs., 1,500-lb. lots lb. .66 - —
bbls., 1,500-lb. lots lb. .67 - —
kgs., 1,500-lb. lots lb. .68 - —
Bonedry shellac prices for less than 1,500 lb. lots 1c. per lb. higher for all packages.
Lemon, No. 1, bgs., 10-bg. lots lb. .49 - —
No. 2, bgs., 10-bg. lots lb. .47 - —
Superfine, bgs., 10-bg. lots lb. .46 - —
Shellac in 1 to 10-bg. lots 1c. per lb more.
Shingle stain oil (see Oil, shingle stain)
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton 25.00 —
l.c.l., works, exwnse ton 45.00 -55.00
hard-quartz, 99½%, 325 mesh, bgs., c.l., works ton 20.00 - —
l.c.l., works ton 25.00 -30.00
140 mesh, bgs., c.l., works ton 15.00 —
l.c.l., works ton 20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .18 - —
l.c.l., works lb. .22 - .30¼
tanks, works lb. .17 - —
Silver bullion, ingots, cs. Troy oz. .90¾- —
Cyanide, fib dms., 2,500-oz. lots, oz. .86⅜- —
1,000-oz. lots oz. .86¾- —
500-oz. lots oz. .86⅞- —
100-oz. lots oz. .87⅛- —
Nitrate, CP, cryst., bots., 2,500-oz. lots oz. .61⅛- —
1,000-oz. lots oz. .62⅜- —
500-oz lots oz. .62⅞- —
250-oz. lots oz. .63⅜- —
USP granular silver nitrate 4c. per oz higher.
Proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong, NF, bots., dms., 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls lb. .38 - .40
crushed, bls., bbls lb. .45 - —
powd., bbls. lb. .45 - —
Soda ash, dense, 58%, paper bgs., c.l. works 100 lbs. 1.80 - —
l.c.l. stock points 100 lbs. 2.90 - 4.67
bulk, c.l., works 100 lbs. 1.50 - —
light, 58%, paper bgs., c.l., works 100 lbs. 1.75 - —
l.c.l., stock points 100 lbs. 3.85 - 4.62
bulk c.l. works 100 lbs. 1.45 - —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 4.50 - —
l.c.l., stock points 100 lbs. 5.60 - —
liq., 50% sellers, tanks, works, dry basis 100 lbs. 2.80 - —
rayon type, sellers, tanks, works, dry basis 100 lbs. 2.80 - 2.90
73%, sellers' tanks, works, dry basis 100 lbs. 2.90 - —
rayon-type, sellers tanks, works, dry basis 100 lbs. 2.90 - 3.00
solid, 76%, dms., c.l., works 100 lbs. 4.10 —
l.c.l., stock points 100 lbs. 5.30 - —
Sal., conc., bgs., c.l., works 100 lbs. 2.30 - —
smaller lots, works 100 lbs. 2.60 - —
Sodium acetate, anhyd., bgs., c.l., works lb. .13 - —
dms., c.l., works lb. .13¾- —
NF, 60% gran., dms., c.l., works lb. .14 - —
l.c.l., works lb. .15½- —
Alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
p-Aminobenzoate, dms., 1,000-lb. lots or more lb. 2.25 - —
smaller lots lb. 2.35 - 2.45
p-Aminosalicylate, dms., 100 lbs. or more, frt. adjusted lb. 2.70 - —
Antimoniate, bbls., c.l., dlvd. E. lb. .28 - —
l.c.l., dlvd. E lb. .29½- —
Arsenate, 45% arsenic pentoxide, dms., c.l., works lb. .12½- —
l.c.l., works lb. .13¾- .14½
Arsenite, 90%, pink powder, 75% arsenious oxide, dms., works lb. .12¼- —
l.c.l., works lb. .13 - .14½
soln., dms., works gal. .59 - .67
Ascorbate, dms., 25-50 kilo lots, kilo. 12.00 - —
10-kilo lots kilo. 12.35 - —
5-kilo lots kilo. 12.75 - —
1-kilo lots kilo. 13.00 - —
bots., 500-gram lots kilo. 13.50 - —
Benzoate, tech., bbls., dms., lots or more lb. .39 - —
USP, bbls., dms., 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.80 - —
l.c.l., works 100 lbs. 3.55 - —
powd., bgs., c.l., works, 100 lbs. 2.40 - —
l.c.l., works 100 lbs. 3.15 - —
Bichromate, gran., bgs., c.l., t.l., works lb. .13 - —
l.c.l., works lb. .13½ .14¼
Bifluoride, bbls., c.l., works, frt. equaled lb. .18½- —
l.c.l., same basis lb. .1890- —
Bisulfate, bulk., c.l., works 100 lbs. 2.00 - —
dms., c.l., frt. equald 100 lbs. 3.00 - 3 60
l.c.l., frt. equald 100 lbs. 3.50 - 4 10
Bisulfate, anhyd., bgs., c.l., works, 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - —
soln., 35°, bbls., c.l., works, 100 lbs. 1.55 - —
l.c.l., works 100 lbs. 2.05 - —
Borate (see Borax).
Bromide, USP, bbls., works lb. .38 - —
Carboxymethyl cellulose (see CMC).
Carbonate, cryst., monohydrated (see Soda, sal).
monohydrated, bgs., c.l., works, 100 lbs. 3.00 - —
l.c.l., works 100 lbs. 3.40 - —
Chlorate, cryst., dms., c.l., works, lb. .09 - —
l.c.l., works lb. .10½- .11¼
Chloride, tech. (see Salt).
USP, bgs. lb. .05 - .12
Chlorite, tech., dms., c.l., works, lb. .58 - —
20-ton lots or more, works, lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
l.c.l., works lb. .28 - —
Chromate, anhyd., fiber, dms., c.l., t.l., works lb. .14¾- —
l.c.l., same basis lb. .15¼- .16½
tetrahydrate, bgs., c.l., t.l., works lb. .1015- —
l.c.l. lb. .1065- .1190
Citrate, anhyd., dms lb. .62 - —
NF VIII, gran., dms lb. .26½- .27½
USP XIV, gran., dms lb. .29½- .30½
Sodium citrate, USP, powd. prices ½c. higher.

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Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots, works lb. 1.00 - 1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb. lots lb. .178 - —
over 1,000-lb. lots lb. .188 - —
100-lb. to 1,000-lb lots lb. .198 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .15 - —
l.c.l., works lb. .15¾ - —
anhyd., dms., c.l., works lb. .18 - —
l.c.l. works lb. 18¾ - —
Ferrocyanide, bgs., 10-ton lots lb. .13½ - —
smaller lots. lb. .14 - —
Fluoride, white, 97%, fib. dms., c.l., works, frt. equald lb. .1390 - —
l.c.l. works lb. .1430 - —
Formate bgs., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Gentisate, 100-lb. fib. dms lb 8 50 - —
Gluconate, refd., dms. lb. 80 - .83
tech, dms lb. 35 - —
Glutamate, mono., dms., c.l lb. 1.20 - —
Hydride, dms., works lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate)
Hydrosulfite dms., c.l. frt. alld. lb. .24 - —
l.c.l., frt. alld. lb. .24½ - —
Hydroxide, NF, pellets, 100-lb. dms., 1 to 100-dm. lots lb. .18½ - .23
technical (see Soda, Caustic).
Hydrophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, NF (see Sodium thiosulfate).
pea crystals, bgs. 100-lbs. 4.50 - —
gran. bgs. c.l. works 100 lbs. 4.75 - 5.00
photo grade, bgs., c.l., works. 100 lbs. 4.50 - 4.75
l.c.l. works 100 lbs. 5.00 - 5.05
tech., bgs., c.l., works 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - —
Sodium hyposulfite crystals in bbls. 50c. higher
Iodide, USP, bots., dms. lb. 2.55 - 2.62
Lactate, edible, 50%, cbys., dms., works lb. .21½ - —
60% cbys., dms. works lb. .26½ - —
tech., 50%, cbys., dms., works. lb. .16½ - —
Lauryl sulfate, dms., c.l., dlvd lb. .21 - —
l.c.l., dlvd lb. .22 - —
tanks, dlvd lb. .18½ - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton. 85.00 - —
l.c.l., ex whse ton. 135.50 - 140.50
Sodium metaborate octahydrate in bbls. $24.50 per ton higher
Metaborate tetrahydrate, dms., c.l., works ton 204.00 - —
Metallic bricks, 14,000-lb. lots or more, works lb. .17 - .19
less than 14,000-lb lots, works. lb. .175 - .195
tanks, works lb .16 - —
Metanilate, bbls., frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.35 - —
l.c.l., works 100 lbs. 5.70 - 7.65
dms., c.l. 100 lbs. 5.85 - —
l.c.l. 100 lbs. 6.20 - 8.10
Pentahydrate, bgs., c.l., works. 100 lbs. 4.25 - —
l.c.l., works 100 lbs 4.60 - 6.50
dms., c.l., works 100 lbs. 4.75 - —
l.c.l., works 100 lbs. 5.10 - 7.00
Molybdate, anhyd., dms., dlvd lb. .88 - .92
cryst., dms., works lb. .69 - .73
Monohydate (see Sodium carbonate monohydrated).
Naphthionate, bbls lb. 70 - —
Nitrate, crude, dom., bgs., c.l., works ton. 47.00 - —
bulk c.l. works ton. 43.50 - —
imp. 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton. 51.25 - —
bulk c.l. same basis ton. 47.75 - —
Nitrite, USP, bbls., c.l., works, frt. equald 100 lbs. 8.50 - —
l.c.l., same basis 100 lbs. 10.50 - —
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.30 - —
l.c.l., orks 100 lbs. 6.65 - 7.25
hydrated, flake, bbls., c.l., works 100 lbs. 5.40 - —
l.c.l., works 100 lbs. 7.30 - 7.65
Oxalate, 88% bgs., works 100 lbs. 10.85 - —
Para-aminobenzoate (see Sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Amino salicylate).
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .26 - —
l.c.l., same basis lb. .27½ - .34
pellets, bgs., c.l., same basis lb. .26 - —
l.c.l., same basis lb. .27½ - .34
powd., bgs., dms., c.l., same basis lb. .25 - —
l.c.l., same basis lb. .26½ - .33
Sodium pentachlorophenate, 20,000 lbs., min. truckloads, ¼c. per lb. over carlot prices.
Perborate, NF, tech., bgs., c.l., works lb. .173 - —
l.c.l., works lb. .178 - —
Peroxide, dms., c.l., dlvd. E. of Miss lb. .1860 - —
l.c.l. same basis lb. .1910 - .1960
Phenolsulfonate, USP IX, gran., dms lb. .44 - .45
Phosphate, dibasic, anhyd., bgs., c.l., frt. equald 100 lbs. 7.65 - —
l.c.l., works 100 lbs. 8.05 - —
USP dried powd. bgs., dms., works lb. .19 - .20½
monobasic anhyd., bgs., c.l., frt. equald 100 lbs. 8.70 - —
l.c.l., frt. equald 100 lbs. 9.10 - 9.70
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.20 - —
l.c.l., frt. equald 100 lbs. 7.60 - 8.20
tribasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.00 - —
l.c.l., frt. equald 100 lbs. 9.05 - 9.65
cryst., bgs., c.l., t.l., frt. equald 100 lbs. 4.40 - —
l.c.l., frt. equald 100 lbs. 4.80 - 5.40
Sodium phosphates in dms., 60c. higher than bgs.
Prussiate, yellow (see sodium ferrocyanide).
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lb. 10.85 - —
l.c.l., works 100 lbs. 11.60 - 11.85
ferric, dms., c.l., t.l., works. lb .36 - —
l.c.l., works lb. .37 - .39
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.52½ - —
l.c.l., frt. equald 100 lbs. 7.92½ - 8.52½
Salicylate, USP, dms lb. .74 - .76

Sodium sesquicarbonate, bgs., c.l., works 100 lbs. 2.25 - —
l.c.l., dlvd., zone 1 100 lbs. 4.00 - 4.25
zone 2 100 lbs. 4.25 - 4.50
zone 3 100 lbs. 4.65 - 4.80
zone 4 100 lbs. 5.25 - 6.50
Sales zones are: (1) Atl. States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia., and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn., Mo. (except St. Louis), Neb., E. of 98° N. C. S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 93°, Kan. Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo. and El Paso, Tex.
Sesquisilicilate, hydrated, bgs., c.l., works 100 lbs. 4.80 - —
l.c.l., works 100 lbs. 5.15 - —
dms., c.l., works 100 lbs. 5.30 - —
l.c.l., works 100 lbs. 5.65 - —
Silicate, liq., 40° Be, 1:3.2, turbid, dms., c.l., works 100 lbs. 1.45 - —
l.c.l., works 100 lbs. 1.80 - 2.30
tanks, works 100 lbs. 1.10 - —
47° Be, turbid, 1:2.9, dms., c.l., works 100 lbs. 2.10 - —
l.c.l., works 100 lbs. 2.70 - 2.95
tanks, works 100 lbs. 1.75 - —
52° Be, turbid, 1:2.4, dms., c.l., works 100 lbs. 2.45 - —
l.c.l., works 100 lbs. 2.80 - 3.30
tanks, works 100 lbs. 2.10 - —
solid, 1:3.2, bgs., works ton. 62.50 - —
Silicofluoride, bgs., c.l., works lb. .073 - —
l.c.l., works lb. .079 - —
Sodium silicofluoride in dms., 0.4c. per lb. higher.
Stannate, dms., works, frt. alld. E lb. .593 - .647
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works lb. .22 - —
Sulfate, NF, VII, dried, powd., dms lb. .22½ - —
tech., anhyd., bgs., c.l., dlvd. E ton. 52.00 - —
detergent, rayon grade, bgs., c.l., works ton. 34.00 - —
bulk, c.l., works ton. 31.00 - —
USP, cryst., fib. dms lb. .17½ - .18
gran., fib. dms lb. .17½ - .18
Sulfhydrate, flake, 70-72%, dms., c.l., works lb. .06½ - —
l.c.l., works lb. .07½ - —
liq. 40-44%, tanks, works, 100% basis ton. 115.00 - —
Sulfide, flake, dms., c.l., works, E., frt. equald lb. .05¼ - —
l.c.l., same basis lb. .06¼ - —
fused, bbls., c.l., works E., frt. equald lb. .04¾ - —
l.c.l., same basis lb. .05¼ - —
Sulfite, anhyd., bgs., c.l. 100 lbs. 3.25 - —
l.c.l., same basis 100 lbs. 3.75 - —
Sulfocyanide, CP (see Sodium thiocyanate).
Tetraborate (see Borax).
Sodium tetrasulfide, liq., 40%, dms., c.l., works lb. .03½ - —
l.c.l., works lb. .04½ - —
Thiocyanate CP, dms lb. .55 - .63
tech., anhyd., dms., 1 ton lots or more, works lb. .317 - —
less than ton lots, works lb. .337 - —
Thiosulfate, NF, cryst., bbls lb. .13½ - —
tech (see Sodium hyposulphite).
Titanate, ctns., c.l., works lb. .10½ - —
5-ton lots, works lb. .10¾ - —
1-ton or less, works lb. .11 - —
Toluene sulfonate, dms., c.l., t.l. lb. .38 - —
l.c.l. lb. .42 - —
Trichloroacetate, 90%, 100-lb. dms., c.l., frt. alld. E lb. .37½ - —
l.c.l., frt. adjusted, E lb. .39½ - —
50 lb dms., c.l., frt. alld E. lb. .38 - —
t.c.l., frt adjusted E lb. .40 - —
10-lb. cns., c.l., frt. alld E lb. .44 - —
t.c.l., frt. adjusted E lb. .46 - —
Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.
Tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 7.87½ - —
l.c.l., same basis 100 lbs. 8.27½ - 8.87½
Trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 8.65 - —
l.c.l. works 100 lbs. 9.40 - 9.80
dms., c.l., works 100 lbs. 9.05 - —
t.c.l. works 100 lbs. 9.80 - 10.30
Tungstate, tech., kgs., dlvd. E lb. 2.15 - —

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SODIUM PERBORATE

for Dry Bleach Formulations

Becco Sodium Perborate Tetrahydrate is widely used in the popular powder bleaches. Manufactured by a continuous process, Becco Sodium Perborate is a remarkably uniform product.

Substantially all its particles are tough, single crystals with little tendency to fracture. Crumbling and dusting are thereby held to a minimum and blending facilitated. Bulk density is carefully controlled.

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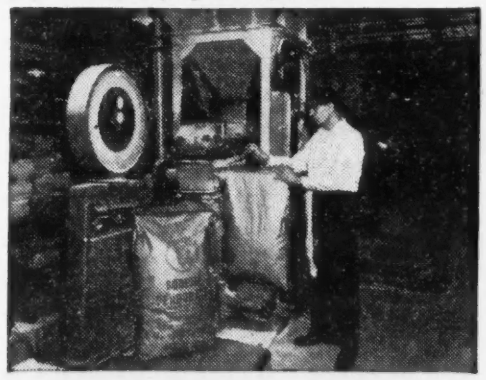
Dry Bleaches are effective in automatic washing machines, and Sodium Perborate is the standard bleaching agent incorporated in many of today's fine washday preparations.

Becco Sodium Perborate flows into sturdy bags for final weighing and shipment.



BECCO CHEMICAL DIVISION
Food Machinery and Chemical Corporation
Station B, Buffalo 7, New York
BOSTON • BUFFALO • CHARLOTTE, N. C. • CHICAGO
NEW YORK • PHILADELPHIA • VANCOUVER, WASH.

BECCO...Progress in Peroxygens

Becco Peroxygen Chemicals: Hydrogen Peroxide • Peracetic Acid • Sodium Perborate • Persulfates and others.

fmc
FOOD MACHINERY AND CHEMICAL CORPORATION

FMC CHEMICALS INCLUDE: BECCO *Peroxygen Chemicals* • WESTVACO *Phosphates, Barium and Magnesium Chemicals* • WESTVACO *Alkalis, Chlorinated Chemicals and Carbon Bisulfide* • NIAGARA *Insecticides, Fungicides and Industrial Sulphur* • OHIO-APEX *Plasticizers and Chemicals* • FAIRFIELD *Pesticide Compounds and Organic Chemicals*

Sodium-ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium-cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
l.c.l., same basis lb. .21½ - —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 - —
smaller lots, same basis lb. .30 - —
Solvent naphtha, coaltar, high flash, tanks, frt. equald gal. .31 - .32
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dms., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works lb. .37 - .39
Tristearate, fib. dms., 20,000-lb. lots, works lb. .33 - —
10,000 to 20,000-lb. lots, works, lb. .35 - —
smaller lots, works lb. .38 - .40
Sorbitol, cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
1 to 5-ton lots, works lb. .25 - .26
powd., dms., 1 to 5-ton lots, works lb. .38 - .39
soln., coml., aqueous, dms., c.l., works lb. .24¼ - —
ton lots, works lb. .25 - —
smaller lots, works lb. .25¼ - —
tanks, works lb. .23¼ - —

Sorbitol, soln., reg. 70% aqueous, dms., c.l., works lb. .16 - —
ton lots, works lb. .16¾ - —
smaller lots, works lb. .17 - —
tanks, works lb. .15 - —
Soybean meal, 44%, bulk, Decatur, ton 49.00 - —
protein, chemically isolated, bgs., c.l., works lb. .23 - —
mechanically refd., bgs. l.c.l., works lb. .066 -
Sparteine sulfate, cns oz. .80 - .85
Spearmint leaves, dom., bls lb. 75 - —
Spruce extract, liq., reg. tanks, works lb. .01¾ - —
powd., super, bgs., c.l., works lb. .05¼ - —
l.c.l., works lb. .05½ - —
Squill, white, bls lb. .16 - .18
powd., bbls., bxs lb. .17 - .20
St John's bread, edible, bls lb. .13 - .15
Stannic chloride, anhyd., dms., works lb. .809 - .819
Oxide, dms., dlvd. E lb. 1.08 - 1.09
Stannous chloride, anhyd., dms., works lb. .904 - 1.208
hydrous, cryst., dms., works lb. .82 - .83
Sulfate, dms., works lb. .993 - 1.007
Starch, corn, pearl, paper bgs., c.l., 100 lbs. 7.27 - —
l.c.l. 100 lbs. 7.42 - —
powd., paper bgs., c.l. 100 lbs. 7.39 - —
l.c.l. 100 lbs. 7.44 - —
Prices for corn starch in cotton bags, 15c. per 100 lbs. higher.

Starch, potato, dom., Idaho, bgs., c.l., works lb. .06¼ - —
Maine, bgs., c.l., works lb. .07¼ Nom.
ex whse, N. Y. lb. .08¾ - .10
Rice, bgs., l.c.l. lb. .15½ - .16
Wheat, bgs lb. .08½ - .09
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs lb. .60 - .61
Stearine oleo (see Oleostearine).
Stramonium leaves, bgs. lb. .18 - .20
Streptomycin hydrochloride, bulk, gram. .07 - .0745
Strontium bromide, NF, cns., dms, lb. .80 - 1.05
Carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
1-ton lots, works lb. .37 - —
tech., dms., works lb. .19 - —
Chromate, bbls., works lb. .46 - —
Iodide, pars, 25-lb. lots lb. 3.42 - —
Nitrate, bbls., c.l., works 100 lbs. 11.00 - —
l.c.l., works 100 lbs. 12.00 - —
Salicylate, NF, dms lb. 1.78 - —
Sulfate, air floated, 90%, 325 mesh, bgs., works ton. 56.70 -66.15
Strophanthin, K., bots. oz. 25.00 -25.50
G. (see Ouabain, USP).
Strophanthus seed, Kombi, biologically tested, bgs. lb. 3.50 - 3.75
Strychnine, NF, powd., cns., 100-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots oz. 1.14 - —
Sulfate, USP, cryst., cns., 25-oz. lots oz. .96 - —
powd., 100-oz. lots oz. .85 - —
Styrax, USP, cs lb. .78 - .80

Styrene monomer, polymer grade, 99½%, dms., c.l., frt. alld. lb. .22½ - —
l.c.l., same basis lb. .23½ - —
tanks, same basis lb. .21½ - —
synthetic rubber grade, 99%, dms., c.l., frt. alld lb. .18 - —
l.c.l., same basis lb. .19½ - —
tanks, same basis lb. .16 - —
Styrolyl acetate, bots lb 1.45 1.70
Sucrose, crude, bgs., dlvd., N. Y. lb .0555- —
refd., white, bgs., refy., E lb. .0655- —
Octa-acetate, denaturing grade, 100-200-lbs., bgs., l.c.l., works lb. 76 —
Sugar (see Sucrose, crude, refined).
Sulfabenzamide, dms lb 4.00 4.50
Sodium, dms lb 4.10 4.60
Sulfacetamide, fib. dms lb 4.00 4.20
USP, same basis lb. 5.00 - 5.20
Sodium fib dms lb 5.00 5.20
USP, same basis lb. 5.20 - 5.40
Sulfadiazine USP, microcrystals, dms lb. 10.60 -11.10
powd. dms lb. 10.25 -10.75
Sulfadiazine-sodium, USP, dms lb. 11.25 -11.75
microcrystals, dms lb 11.60 -12.10
Sulfaguanidine USP dms lb 2.50 —
Sulfamerazine, USP, microcrystals lb. 10.65 -11.15
Sulfamerazine-sodium, USP dms, lb. 11.25 -11.75
Sulfamethazine, microcrystals, dms lb 8.90 9.40
powd., dms lb 8.50 9.00
Sulfanilamide, USP 30-80 mesh, dms lb 1.40 1.60
microcrystals, dms lb 1.70 1.90
powd. dms lb. 1.30 1.50
Quinoxaline, veterinary, dms lb 6.40 6.75
Sulfapyridine, NF powd. bots. tins, lb 7.00 7.50
Sulfapyridine-sodium, monohydrate, dms lb 7.50 8.00
Sulfathiazole, USP, microcrystals, dms lb 2.85 3.00
powd. dms lb 2.50 2.65
Sulfathiazole-sodium, USP, dms lb 2.75 2.90
Sulfur, coml. flour bgs. mines 100 lbs. 2.55 - —
Sulfur, coml., flour, bgs., mines, 100 lbs. 2.55 - —
bbls., mines 100 lbs. 3.30 - —
lump, bgs., mines 100 lbs. 2.45 - —
bbls., mines 100 lbs. 2.90 - —
crude, bulk, c.l., mines, con-export, f.o.b. vessels, Gulf ports long-ton 28.00 - —
domestic and Canada, f.o.b. vessel Gulf port long-ton 28.00 - —
refd., flowers, USP, bgs., mines 100 lbs. 4.25 - —
bbls. 100 lbs. 5.50 - —
flour, light, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.75 - —
lump, bgs., mines 100 lbs. 3.55 - —
rolls, bgs., mines 100 lbs. 4.10 - —
bbls., mines 100 lbs. 4.65 - —
salt block, bbls., mines 100 lbs. 3.75 - —
virgin block, bbls., mines 100 lbs. 3.70 - —
rubbermakers, coml., reg., bgs., mines 100 lbs. 2.65 - —
bbls., mines 100 lbs. 3.80 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.75 - —
bbls., mines 100 lbs. 3.90 - —
refd., bgs., mines 100 lbs. 3.50 - —
bbls., mines 100 lbs. 4.55 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.95 - —
bbls. mines 100 lbs. 4.10 - —
Dichloride, dms., c.l., works, frt. equald lb. .04 - —
l.c.l. same basis lb. .04¾ - —
tanks, same basis lb. .03¾ - —
Dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, 150-lb. cyls., dlvd. lb. .30 - —
Monochloride, 55-gal. dms., c.l., frt. equald lb. .04 - —
l.c.l., same basis lb. .04¾ - —
tanks, same basis lb. .03¾ - —
Sumac leaves, 28% tannin, bgs., ex-dock ton. 126.00 -128.00
ground, bgs., ex-dock ton. 122.00 -124.00
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 .91
Carteret, N. J. unit-ton. .88 .91
triple, 48% or more a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton .98 —

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.18 - —
l.c.l., same basis lb. 1.25 - —
Isopropyl ester, dms., c.l., works, frt. equald lb. 1.24 - —
l.c.l., works lb. 1.29 - —
Talc, dom., ord., Calif., grd., bgs., c.l., works ton. 33.00 -39.50
Vermont off color grd., bgs., c.l., works ton. 19.40 - —
l.c.l., works ton. 37.00 - —
fibrous, New York, grd., bgs., c.l., works ton. 28.00 - —
l.c.l., works ton. 31.00 -36.00
99.5%, 325 mesh, bgs., c.l., works ton. 31.00 - —
l.c.l., works ton. 34.00 - —
99.95% micronized, bgs., works ton. 38.00 - —
imp., Canadian, grd., bgs., c.l., mines ton. 20.00 25.00
Tallow, edible, tanks, dlvd. lb. .10¾ - .11
indelible, extra, tanks, dlvd lb. .07¼ - —
fancy, bleachable, tanks, dlvd., lb. .07½ - —
guaranteed, dms., f.a.s lb. .08¼ - —
No. 1, tanks, dlvd. lb. .06¾ - —
special tanks, dlvd. lb. .06⅞ - —
sulfonated, 25%, bbls., l.c.l. lb. .08¾ - .09
50%, bbls., l.c.l. lb. .09¾ - .10¼
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton. 5.50 - —
Chicago, bulk unit-ton. 6.75 - —
Tapioca flour, Brazilian, bgs., ex whse lb. .09¾ - .10¼
Siamese, medium, bgs., ex whse. lb. .06¼ - .06⅝
Tar acid oil, 15-18%, dms., c.l., frt. equald gal. .47 - .49
l.c.l., same basis gal. .50 - .51
tanks, same basis gal. .39 - —
25-28%, dms., c.l., same basis, gal. .54 - .56
l.c.l., same basis gal. .57 - .58
tanks, same basis gal. .46 - —
50-53%, dms., c.l., same basis, gal. .70 - .72½
l.c.l., same basis gal. .73½ - .74½
tanks, same basis gal. .62½ - —
Coal (see Coaltar).
Tartar, emetic (see Antimony-potassium tartarate).
Terpine glycol ether, dms., c.l., works lb. .23½ - —
l.c.l., works lb. .25½ - —
tanks, works lb. .22 - —
Hydrate, NF, cryst., powd., fib. dms lb. .67½ - .74
Terpinol, dms., l.c.l., dlvd E lb. .23¾ - —
extra, dms lb. .41 - .60
prime, dms lb. .30 - .45
Terpinyl acetate, extra, cns., dms. lb. .60 - .75
prime, dms lb. .55 - .70
Propionate, dms lb. 1.75 - 2.00

MONTROSE

CHEMICAL COMPANY

104-112 LISTER AVENUE

NEWARK, NEW JERSEY

tricresyl phosphate

dioctyl phthalate

dibutyl phthalate

EXCLUSIVE SALES AGENTS

R. W. GREEFF & CO., INC.

10 ROCKEFELLER PLAZA, NEW YORK 20, N. Y.

1721 TRIBUNE TOWER, CHICAGO, ILLINOIS

Terra alba (see Gypsum).

Testosterone, USP, 100-gm. lots, bots gram. .70 - —
Propionate, USP, 100-gm. lots, bots gram. .68 - —
Tetrachloroethane, dms., works lb. .14½- —
Tetrasodium pyrophosphate (see Sodium pyrophosphate).
Tetrachloroethylene, tech (see Perchloroethylene).
USP 55 gal. dms., works lb. .20½- .21½
smaller dms., works lb. .23½- .25
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .61½- —
l.c.l., dlvd. E lb. .62½- —
Pyrophosphate, 40%, cns., dms., frt. equald lb. 75 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .49 - —
l.c.l., dlvd. E lb. .50 - —
tanks, dlvd. E lb. .47 - —
Tetrahydrofuran, dms. c.l., or t.l., works lb. .36½- —
l.c.l., or t.t.l., works lb. .37 - —
tanks, works lb. .35 - —
Tetrapotassium phosphate (see Potassium phosphate).
Thallium metal, dlvd lb. 12.50 - 15.00
Sulfate, 99%, bots. dlvd lb. 8.00 - 13.00
Theobromine, NF, fib. dms lb. 3.25 - —
And sodium acetate USP, fib. dms lb. 4.00 - —
Sodio-Salicylate, NF, fib. dms lb. 3.30 - —
Theophylline anyhd or USP, 100-lb. dms lb. 3.65 - —
Thiamine hydrochloride, USP, regular, fib. dms kilo. 60.00 - —
ampule grade, fib. dms kilo. 62.00 - —
Mononitrate, USP, fib. dms kilo. 62.00 - —
Thiocarbanilide, dms. ton lots lb. .72 - —
less tons lots lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thiourea, tech., bgs., t.l., frt. alld. lb. .33 - —
l.c.l., frt. alld lb. .35 - —
Thorium nitrate, purif., fib. dms., 100-lb lots or more, works lb. 3.50 - —
dl-Threonine, bots. 1-kilo lots. kilo. 450.00 - 500.00
Thymol, fib. dms lb. 2.50 - 2.75
Iodide, NF, dms. lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous).
crystals (see Stannous chloride, hydrous).
Oxide (see Stannic oxide).
Metal (Straits) lb. 1.04¼- —
Sulfate (see Stannous sulfate).
Tetrachloride anhyd., (see Stannic chloride, anhydrous).
Titanium dioxide anatase, chalk-resistant, bgs., c.l., dlvd lb. .24½- —
l.c.l., dlvd. lb. .25½- —
ceramic, bgs., c.l., dlvd. lb. .22½- —
l.c.l., dlvd. lb. .23½- —
reg., bgs., c.l., dlvd lb. .22½- —
l.c.l., dlvd. lb. .23½- —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla ton. 120.00 - —
Niagara Falls, N. Y., c.l., ton. 137.50 - —
5-ton lots ton. 142.50 - —
ton lots ton. 147.50 - —
rutile nonchalking, bgs., c.l., dlvd. E lb. .26½- —
l.c.l., dlvd. E. lb. .27½- —
Milled titanium dioxide, $7.50 per ton higher.
Hydride, cns., works lb. 7.93 - 9.00
Pigment, calcium-rutile base, reg., bgs., c.l., dlvd lb. .09¼- —
l.c.l., works lb. .09¾- —
high-tinting, dms., c.l. lb. .09 - —
l.c.l. lb. .09½- —
Tetrachloride, tech., dms., c.l., works lb. .40¾- —
l.c.l., works lb. .43¾- —
tanks, works lb. .39¾- —
dl-a-Tocopherol, bots. kilo. 149.65 - —
Acetate kilo. 136.00 - —
Acetate kilo. 185.00 - —
Acid succinate kilo. 165.00 - —
o-Tolidine, base, paste, kgs., 100% basis lb. 1.35 - —
dry, kgs., 100% basis lb. 1.40 - —
Hydrochloride, paste, kgs., 100% basis lb. 1.35 - —
Tolu balsam, cns lb. 4.85 - —
Toluene (see Toluol).
p-Toluenesulfonamide, powd., dms., works lb. .70 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa gal. .32 - —
Birmingham dist. gal. .32 - —
Chicago, dist. gal. .32 - —
Cleveland dist. gal. .32 - —
Geneva, Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Lackawanna, N. Y. gal. .32 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .32 - —
Middletown, Ohio gal. .33½- —
Minnequa, Colo. gal. .32 - —
Philadelphia dist. gal. .32 - —
Pittsburgh dist. gal. .32 - —
Sparrows Point, Md. gal. .32 - —
Terre Haute, Ind. gal. .35 - —
Youngstown, Ohio gal. .32 - —
petroleum, indust., 2°, tanks, works:—Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .38 - —
Detroit, Mich. gal. .35 - —
Houston, Tex. gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .25 - —
2,4-Tolylenediamine, cryst., fib. dms., c.l., frt. alld lb. .97 - —
l.c.l., frt. alld lb. 1.00 - —
powd., fib. dms., same basis lb. 1.08 - —
Tonka beans, Angostura, cks. lb. No prices.
Brazilian, Surinam, cs lb. 1.35 - —
Totaquine 100-oz. lots, cns oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .21 - —
l.c.l., l.t.l., works lb. .27 - —
Triacetin, dms., c.l., dlvd. E. of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .42½- —
l.c.l., frt. alld E. of Denver, lb. .43½- —
tanks, frt. alld E. of Denver, lb. .40 - —
Phosphate, dms., c.l., works lb. .52½- —
l.c.l., same basis lb. .53½- —
tanks, same basis lb. .50 - —

Tributylamine, dms., c.l., works lb. .67½- —
l.c.l., same basis lb. .68½- —
tanks, same basis lb. .65 - —
Trichlorobenzene, dms., c.l., frt. alld. E lb. .14½- —
l.c.l., frt. alld. E lb. .15½- —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., or t.l., works, frt. equald lb. .12½- —
l.c.l., dlvd. E. lb. .14½- —
tanks, works, frt. equald lb. .11¼- —
1,1,1-Trichloroethane, dms., c.l., works lb. .13½- —
l.c.l., works lb. .14¼- .16¼
tanks, works lb. .11½- .12½
Tricholine citrate, 85% soln., ret. cbys., works, frt. adjusted lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .37 - —
l.c.l., dlvd lb. .38 - —
tanks, dlvd lb. .34½- —
petroleum, dms., c.l., dlvd lb. .36½- —
l.c.l., dlvd. lb. .37½- —
tanks, dlvd. lb. .34½- —
Triethanolamine, dms., c.l., dlvd. E lb. .24½- —
l.c.l., same basis lb. .25½- —
tanks, same basis lb. .22 - —
Triethylamine, dms., c.l., works, dlvd E lb. .49 - —
tanks, same basis lb. .46½- —
Triethyl citrate, refd., tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .45¾- —
l.c.l., frt. alld. E. of Denver, lb. .46¾- —
tanks, frt. alld. E. of Denver, lb. .43¾- —
Phosphate, dms., c.l., dlvd. lb. .40½- —
l.c.l., dlvd lb. .41½- —
tanks, same basis lb. .38 - —

Triethylene glycol, dms., c.l., dlvd. E lb. .21 - —
l.c.l., same basis lb. .22 - —
tanks, same basis lb. .18½- —
Triethylenetetramine, dms., c.l., dlvd. E lb. .51½- —
l.c.l., dlvd. E. lb. .52½- —
tanks, dlvd. E. lb. .49 - —
Tri-isopropanolamine, dms., c.l., dlvd. E lb. .23¼- —
l.c.l., dlvd. E. lb. .24¼- —
tanks, dlvd. E lb. .20¾- —
Trimethylamine 25-40% soln., dms., c.l., works, frt equald., 100% basis lb. .42 - —
l.c.l., works, frt equald, 100% basis lb. .42½- —
tanks works, frt. equald, 100% basis lb .33 - —
Trioxane, pure, dms., c.l., t.l., dlvd. E lb. .50 - —
l.c.l., dlvd. E. lb. .51½- —
Tripentaerythritol, bgs., l.c.l., works. lb .35 -
Triphenyl phosphate, bbls., c.l., frt. equald lb. .40 - —
l.c.l., frt. equald lb. .41 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld E lb. .20½- —
l.c.l., frt. alld. E lb. .21½- —
Tripopylene glycol prices 1c. per lb. higher in West.
Phosphate (see Sodium phosphate tribasic).

Tyrothricin, USP, bots gram. .75 - .85
dl-Tryptophane, fib ctns., works kilo. 165.00 —
Tungsten metal powd., 2-5 microns, dms., works lb. 4.85 - —
Turpentine, gum (see Protective Coatings market, Naval Stores).

U

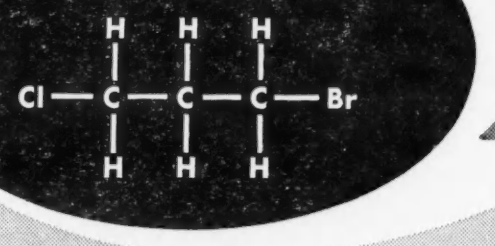
Unicorn root, false (see Helonias root).
True (see Aletris root)
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton 120.00 - —
l.c.l. dlvd. E, ex whse ton 140.00 - —
45% N, agricultural, bgs., c.l., (30 tons), dlvd., E ton 105.00 - —
Urea-ammonia liquor, A and B grades N basis, tankcars, Belle, W. Va ton 126.00 - —
Urea-ammonia, liquor, C grade, tankcars, same basis ton. 124.50 - —
37 grade tankcars, same basis. ton. 153.00 - —
Urethane, USP, dms lb. 1.45 - —
Uva-ursi leaves, bls lb 12 - .14

V

Valerian root, Belgian, bgs. lb. .35 - —
Indian, bgs. lb. .27 - —
dl-Valine, dms., works lb. 21.00 - 27.50

For a versatile, multipurpose intermediate

try TMCB



1-Bromo-3-chloropropane
(Trimethylene Chlorobromide; TMCB)

TRIMETHYLENE CHLOROBROMIDE IS UNMATCHED as a versatile and reactive intermediate for the formation of long-chain aliphatic hydrocarbon derivatives, and it offers many possibilities for substitution reactions. It can be cyclized and is thus effectively employed in the manufacture of anaesthetic grade cyclopropane.

The 3-carbon chain is readily extended by replacement of the bromine atom in reactions with cyanides, Grignard reagents, various amines, metal alkylates and similar groups. This results in chloropropyl compounds such as:

Chloropropyl cyanide
Chloropropyl quaternary ammonium bromide
Chloropropyl dialkyl amines

The chlorine atom can be left intact for further reactions by which symmetrical or unsymmetrical substituted propanes are formed.

TMCB is clear, colorless liquid — pure and highly stable. The boiling range is 2°C. maximum.

Michigan Chemical Corporation is your dependable source of supply for this and other intermediates. TMCB is available promptly in small quantities for experimental purposes, in 700-pound nonreturnable drums, and in 50,000 pound tank-car lots.

For further information, samples or prices, write or phone us.

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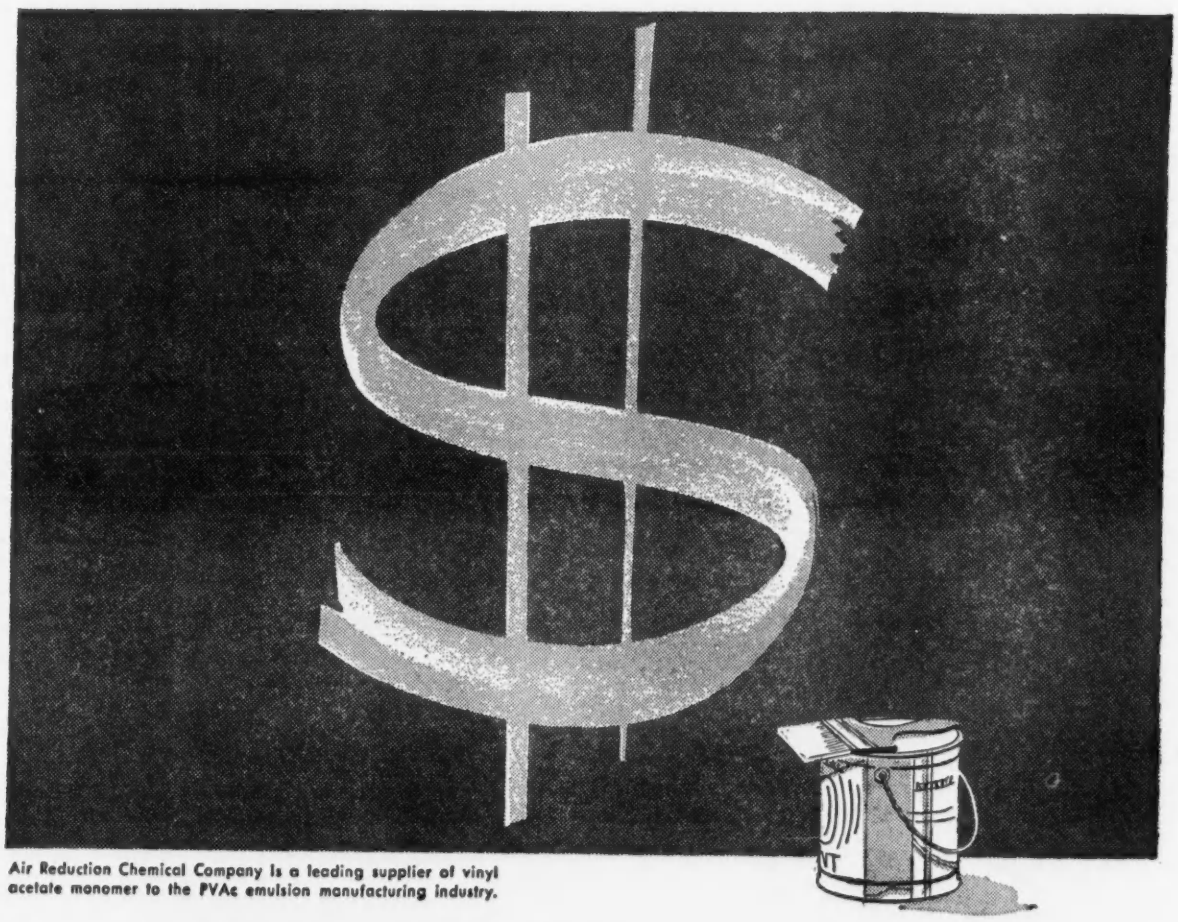
BASIC MANUFACTURER OF INDUSTRIAL, PHARMACEUTICAL AND AGRICULTURAL CHEMICALS

Valonia Beards—Yellow, Benzidine

Valonia beards, 40-42% tannin, bgs., ex dock...ton.82.00 -83.00
cups, 28-30% tannin, bgs., ex-dock...ton.61.00 -62.00
extract, powd., 63% tannin, bgs., exdock, duty extra lb. .09½- —
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins....lb. 9.00 - 9.50
Mexican, cuts, tins....lb. 8.50 - 9.00
whole, tins....lb. 9.25 - 9.75
Tahiti, cs....lb. 7.00 - —
Vanillin, ex eugenol, tins, 25-lb. lots.
lb. 6.50 - 6.75
smaller lots....lb. 6.90 - 7.25
ex lignin, dms., 100-lb. lots....lb. 2.75 - —
smaller lots....lb. 2.80 - 2.85
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E...lb. .19 - —
l.c.l., dlvd. E....lb. .20 - —
tankcars, dlvd. E....lb. .16½- —
tanktrucks, less than 4,000 gal., dlvd. E...lb. .17½- —
n-Butyl ether, tech., dms., c.l., works...lb. .28 - —
l.c.l., works....lb. .30 - —
tanks, works....lb. .27 - —
Chloride monomer, tanks, works. lb. .11 - .12
Ether, USP, anesthesia, bots., 50 c.c., hospitals....bot. 1.12 - —
75 c.c....bot. 1.56 - —
tech., dms., c.l., works....lb. .26 - —
l.c.l., works....lb. .28 - —
tanks, works....lb. .25 - —
Vinyl Isobutyl ether, tech., dms., c.l., works...lb. .28 - —
l.c.l., works....lb. .30 - —
tanks, works....lb. .27 - —
Methyl ether, cyls., works....lb. .23 - —
tanks, works....lb. .20 - —
Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.
Propionate monomer, dms., c.l., dlvd...lb. .49 - —
l.c.l., same basis....lb. .50 - —
tanks, same basis....lb. .47 - —
Trichloride (see Trichloroethane).
2-Vinylpyridine, 10 dms. to tanks, works...lb. 1.36 - —
1 to 9 dms., works....lb. 1.50 - —
tanks, works....lb. 1.33 - —
Vinyltoluene, dms., c.l., frt. alld...lb. .18½- —
l.c.l., frt. alld....lb. .19½- —
tanks, frt. alld....lb. .16 - —
Viosterol in nat. vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units....1,000,000 units. .02 - .04¾
lots of 1 billion USP units, 1,000,000 units. .025 - .05¼
lots of less than 1 billion USP units, 1,000,000 units. .03 - .05¼
Vitamin A acetate, syn., crystalline, beads, 500,000 A units per gram gram. .07¼- —
dry, 500,000 units per gram, kilo lots...kilo.67.50 - —
325,000 units per gram, same basis kilo.43.88 - —
250,000 units per gram, same basis...kilo.33.75 - —
Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.
liq., in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
Palmitate, liq., 1,000,000-1,800,000 A units per gram.. 1,000,000 units. .10 - —
in oil, 1,000,000 A units per gram 1,000,000 units. .10 - —
B_1 (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B_{12} complex natural (see Rice bran concentrate and Yeast).
B_{12} crystalline, 1-gram or 5-gram vials...gram.245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram.165.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver Calciferol, and Viosterol)
D_2 dry 850,000 units per gram, kilo lots...kilo.42.50 - —
less than kilo lots....kilo.45.00 - —
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin).
K Active (see Menadione).
K_1, 25 gram bots....gram. 4.50 - —
Violet methyl toner (see Blue methylviolet toner)
V.M.&P. naphtha (see Petroleum naphtha).



Air Reduction Chemical Company is a leading supplier of vinyl acetate monomer to the PVAc emulsion manufacturing industry.

PVAc emulsions can paint a pretty profit picture—*without a scent!*

Odorless, easy-to-apply, fast-drying PVAc paints are moving up to the top of "best seller" lists in stores across the country. Professionals and do-it-yourselfers have created a tremendous demand which you can easily and profitably satisfy.

Here are some of the sales appeals your PVAc paint can offer an eager market:

- Superior adhesion
- Excellent color retention, non-yellowing
- Early water resistance
- Exceptional leveling
- 20 minute to 2 hour sealing, drying time
- Ease of application (roller, spray, brush)
- Easy clean-up (soap and water cleans equipment)

Those engaged in the manufacture of PVAc emulsions will be interested in the Airco vinyl acetate monomer bulletin, available from our New York offices.

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AIR REDUCTION CHEMICAL COMPANY

A division of Air Reduction Company, Incorporated

150 East 42nd Street, New York 17, N. Y.

Represented Internationally by Airco Company International

W

Wahoo root, bark, bls....lb. 2.25 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.95 - —
25-49-lb. lots, N. Y. or Chicago. lb. 2.05 - —
5-24-lb. lots, cns., N. Y. or Chicago lb. 2.15 - —
Wattle bark, fair average, African, bales, ex dock ton.95.00 -96.00
merchantable bales, ex dock.ton.91.00 -92.00
extract, liq., 35% tannin, bbls. lb. .08¼- .08⅝
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09⅞- —
S. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
Wax, amorph. (see Wax micro crystalline).
Bayberry, bgs....lb. .45 - .47
Bees, crude, African, bgs....lb. .70 Nom.
Brazilian, bgs....lb. .70 Nom.
Central American, bgs....lb. .68 Nom.
Chilean, bgs....lb. .70 Nom.
refd., USP, bleached, white bricks, 100-lb. ctns lb. .80 - .82
slabs, 100-lb. ctns....lb. .79 - .81
yellow, bricks, 100-lbs. ctns.lb.. .71 - .73
slabs,, 100-lb. ctns....lb. .70 - .72
Candelilla, crude, bgs....lb. .68 - .70
refd., bgs....lb. .71 - .73
Powdered candelilla: 20 to 100 mesh, 7c. higher.
Carnauba, chalky, bgs., ton lots. lb. .70 - .71
North country No. 2, crude, bgs., ton lots lb. .75 - .76
refd., pure, bgs., ton lots lb. .84 - .85
No. 3, Ceara, crude, bgs., ton lots lb. .71 - .73
refd., pure, bgs., ton lots lb. .80 - .82
tech., bgs., ton lots lb. .72 - .74
Parnahyba, crude, bgs., ton lots lb. .73 - .74
refd., pure, bgs., ton lots lb. .81 - .82
yellow No. 1, Ceara, bgs., ton lots lb. 1.42 - 1.44
Parnahyba, bgs., ton lots lb. 1.44 - 1.46
Powdered carnauba wax price differentials same as powdered candelilla.
Japan, cs....lb. .49 - .50
Microcrystalline, coating grades, tankcars, works lb. .09 - .10
laminating grades, tankcars, works lb. .10 - .11
Montan, dom., refd., bgs....lb. .27 - .29
imp., crude, Bohemian, bgs. lb. .26 - .27
German, bgs....lb. No prices.
Ouricury, refd., pure, bgs....lb. .93 - .95
tech., bgs....lb. .85 Nom.
Paraffin (see P).
Spermaceti, blocks, cs....lb. .30 - .33
cakes cs....lb. .31 - .34
Sugar cane, dom., refd., slabs, 80 lbs. ctns., works lb. .65 - .75
spot....lb. .67¼- .72½
White lead (see Lead, White).
White pine bark, rossed, bls. lb. .18 - .19
White precipitate, USP powd., dms., lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls. lb. .20 - —
rossed, bls....lb. .21 - —
Witch hazel, bark, bls....lb. .16 - .17
leaves, bls....lb. .27 - —
Wollastonite, fine, bgs., c.l., works. ton.39.50 - —
l.c.l., ex whse....ton 56.00 - —
medium, bgs., c.l., works....ton.27.00 - —
l.c.l., ex whse....ton.44.00 - —
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs....lb. .20 - .25
Levant, bgs....lb. 4.25 - 4.50
45°-47°C., dms., c.l. same basis,

X

Xylene (see Xylol).
Xylenol, cryst., 58°-60°C., m.p., dms., l.c.l., works lb. .40 - —
36°-38°C., dms., l.c.l., works, frt. equald lb. .30 - —
lb. .212 - —
l.c.l., same basis....lb. .215 - —
tanks, same basis....lb. .199 - —
Fraction, b.r. 7°-9°C., dry above 227°C., dms., c.l., same basis gal. .96 - —
l.c.l., same basis....gal. .99 - —
tanks, same basis....gal. .85 - —
dry at or below 227°C., dms., c.l., same basis gal. 1.11 - —
l.c.l., same basis....gal. 1.14 - —
tanks, same basis....gal. 1.00 - —
Xylidines, mixed, o-m-p, dms., c.l. or t.l., works lb. .39 - —
l.c.l., same basis....lb. .40 - —
tanks, same basis....lb. .38 - —
Xylol, coaltar, indust., tanks, works:—
Bethlehem, Pa....gal. .34 - —
Birmingham dist....gal. .32 - —
Chicago dist....gal. .35 - —
Cleveland dist....gal. .34½- —
Geneva, Utah....gal. .27 - —
Johnstown, Pa....gal. .33 - —
Lackawanna, N. Y....gal. .35 - —
Lone Star, Tex....gal. .33 - —
Lorain, Ohio....gal. .33 - —
Middletown, Ohio....gal. .34 - —
Minnequa, Colo....gal. .34 - —
Philadelphia dist....gal. .34 - —
Pittsburgh dist....gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute, Ind....gal. .35 - —
Youngstown, Ohio....gal. .32½- —
petroleum, indust., tanks, works:—
Bayonne, N. J....gal. .34 - —
Baytown, Tex....gal. .33 - —
Chicago, Ill....gal. .35 - —
Houston, Tex....gal. .33 - —
Philadelphia, Pa....gal. .34 - —
Providence, R. I....gal. .35 - —
Wood River, Ill....gal. .35 - —

Y

Yara, yara, cns....lb. 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 int'l B units per gram, 100-lb. dms. lb. .47 - —
90 Int'l B units per gram, 100-lb. dms. lb. .52 - —
200 int'l B units per gram, 100-lb. dms. lb. .56 - —
300 int'l B units per gram, 100-lb. dms. lb. .60 - —
debittered, USP, Saccharomyces, dlvd. lb. .27 - —
Torula, USP, dlvd....lb. .18 - —
Yellow, barium chromate, CP, bbls., dlvd N. of Tenn. and N. & E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul....lb. .35 - —
Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.
Benzidine, AAA, bbls., dlvd. lb. 2.10 - —
AAOT bbls., dlvd....lb. 2.85 - —
Lightfast, bbls., dlvd....lb. 3.15 - —

Yellow, cadmium, CP, all shades, bbls., frt. alld., E. of Rockies	lb.	2.85	—
Selenide lithopone, all shades, bbls., frt. alld. E. of Rockies	lb.	1.05	—
Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb higher			
Chrome, CP, bbls., dlvd. N. of Tenn., and N.C., E. of Miss., including Davenport, Minneapolis, Rock Island	lb	.33	.33½
Dlvd. Ala., Fla., Ga., La. (Shreveport 1½ higher); Miss., N. C., S. C., Penna., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher; dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.			
Hansa, 10 g. bbls., same basis as yellow, chrome	lb.	2.25	—
G pigment, bbls	lb	1.91	—
Iron oxide, natural, French type, bgs., c.l., works	lb.	.06	—
Peruvian type, bgs., l.c.l.	lb.	.0205	.0345
pure, bgs., c.l., works	lb.	.11½	—
l.c.l., works	lb.	.11¾	—
Mercury oxide, bbls., 1,000-lb. lots	lb	5.58	—
smaller lots	lb	5.60	—
Ocher (see Yellow, iron oxide, natural).			
Zinc (chromate) bbls., dlvd.	lb.	.27	.27½
basic, bbls., dlvd.	lb.	.31	.32½
Yerba santa leaves, bls	lb	.40	.42
Yohimbine hydrochloride, bots, tin	oz.	3.75	4.25

Z

Zein, bgs., 36,000-lb. lots or more	lb	.38	—
1,000 to 36,000-lb. lots, works	lb	.40	—
smaller lots, works	lb.	.43	—
Zinc acetate, NF, VIII, dms.	lb.	.53	—
tech., dms., works	lb	.27	—
Borate, bgs., c.l., dlvd. E	lb.	.192	—
l.c.l., dlvd. E	lb	.202	—
Chloride, NF, gran., dms.	lb.	.42	—
precipitated, powd., dms	lb.	.26	—
soln., 50% dms. c.l., works, 100 lbs.		5.50	—
l.c.l. works	100 lbs.	6.10	—
tanks works	100 lbs.	4.85	—
tech., fused, dms., c.l., works, 100 lbs.		10.10	—
l.c.l., works	100 lbs.	10.60	—
gran. fib. dms., c.l., works, 100 lbs.		10.85	—
l.c.l., works	100 lbs.	11.35	—
Chromate (see Yellow, zinc).			
Cyanide, kgs., 1,000-lb. lots or more, works	lb.	.523	—
smaller lots, works	lb.	.543	—
Dust, pigment, bbls., c.l., works	lb.	.17½	—
l.c.l., works	lb.	.18½	—
Fluoride, bbls., works	lb.	.49	.50
Hydrosulfite, dms., c.l., frt. alld	lb.	.21½	—
l.c.l. frt. alld	lb	.22	.37½
Metal, prime western slabs, E. St. Louis	lb.	.13½	—
New York	lb.	.14	—
Naphthenate, liq., 8% Zn., dms., frt. alld	lb.	.24½	—
10% Zn. dms. frt. alld	lb.	.30	—
Nitrate, tech., cryst., bbls., works,	lb	.20	—
Oxide, pigment, American process, lead-free, bgs., c.l., frt. alld	lb.	.14½	—
l.c.l., same basis	lb.	.15½	—
leaded, 35%, bgs., c.l., mills, frt. alld	lb.	.15½	—
l.c.l., same basis	lb.	.16½	—
50%, bgs., c.l., same basis	lb.	.15⅞	—
l.c.l., same basis	lb.	.16⅞	—
French process, coml., green seal, bgs., c.l., frt. alld	lb.	.15¾	—
l.c.l., same basis	lb.	.16¾	—
red seal, bgs., c.l., same basis	lb.	.15¼	—
l.c.l., same basis	lb.	.16¼	—
white seal, bgs., c.l., same basis	lb.	.16¼	—
l.c.l., same basis	lb.	.17¼	—
USP, ctns., c.l., frt. alld.	lb.	.17¼	—
l.c.l., same basis	lb.	.18¼	—
Zinc oxide Pac. coast prices 1c. higher.			
Phenolsulfonate, NF, gran., dms.	lb.	.39	—
powd., dms	lb.	.42	.49
Resinate, precip., 7.2-7.6% Zn., dms. frt. alld	lb.	.29	—
Silicofluoride, dms., works	lb	.12½	.14
Stearate tech., USP, ctns., c.l.	lb.	.39	—
	lb.	.39	—
l.c.l.	lb.	.40	.44
Sulfate, powd., monohydrate, 36% Zn, bgs., c.l., dlvd. E	100 lbs.	8.75	—
l.c.l., dlvd. E	100 lbs.	9.75	—
Zinc sulfate in bbls. 40c. higher.			
USP, gran., dms	lb	.26	—
Sulfide, pure, bgs., c.l., dlvd.	lb.	.2530	—
Undecylenate, dms.	lb.	2.25	2.50
Yellow (see Yellow, zinc).			
Zinc-ammonium chloride, bgs., c.l., works	100 lbs.	9.65	—
bbls., c.l., works	100 lbs.	10.25	—
l.c.l., works	100 lbs.	10.75	—
Zinc-formaldehyde sulfoxylate, basic, dms., c.l.	lb.	.25½	—
l.c.l.	lb.	.26	—
Zircon (G), gran., bgs., c.l., works,	lb.	.03½	—
5 tons to c.l., works	lb.	.03¾	—
1 ton to 9,999-lb. lots, works,	lb.	.04	—
smaller lots, works	lb.	.06½	—
milled, bgs., c.l., works	lb.	.04¼	—
5 tons to c.l., works	lb.	.04¾	—
1 ton to 9,999-lb. lots, works,	lb.	.04¾	—
500-1,999-lb. lots, works	lb.	.07½	—
Zircon (G) in barrels, 1c. higher.			
Zirconium acetate, 13% com., ZrO., c.l., 30,000 lbs. minimum, works	lb.	.23	—
Hydride, cns., works	lb.	7.00	8.45
Nitrate, dms., ex whse	lb.	4.50	7.00
Oxide, 92½-99%, white, grd., bbls. or bgs., works	lb.	1.50	—
lump, electric-fused, bgs., lump, electric-fused, bgs., c.l., works	lb.	.44	—
5-ton lots, works	lb.	.44½	—
1 ton to 9,999-lb. lots, lbs., works	lb.	.45	—
CP, white, grd., bbls., or bgs., works	lb.	1.50	—
lump, electric fused, bags, 500 to 1,999-lb. lots, works	lb.	.45¼	—
smaller lots, works,	lb.	.48	—
milled, electric-fused, bgs., c.l., works	lb.	.59	—
5-ton lots, works	lb.	.59½	—
1 ton to 9,999-lb. lots, works	lb.	.60	—
500 to 1,999-lb. lots, works	lb.	.60¼	—
smaller lots, works,	lb.	.63	—
Oxychloride, cryst., ctns., 5-ton lots, works	lb.	.35½	—

USI Prepared to Celebrate Anniversary

—Continued from page 5

of The House of Webb, then the largest distributors of alcohol and derivatives for industrial and scientific uses in the world. This venerable organization da'ed back to 1835, and the name was a by-word in the industry. So much so, in fact, that Webb brand pure alcohol continued to be marketed under that name until as recently as 1943.

Chemicals With World War I

World War I precipi ated USI into the chemical business. In 1916 a plant went up at Fairfield, Baltimore, to produce acetone from ethyl alcohol for the British manufacture of "Cordite" explosive, and as a base for airplane "dope"—the lacquer for covering airplane wings. Other chemicals from ethanol were soon developed—materials such as ethyl and amyl acetates, diethyl ether and ethylene, first produced in this country as a result of research carried on in USI laboratories from 1916 to 1925.

Another material developed by USI in this period was "Alcogas," a mixture of alcohol and gasoline first sold as an au o fuel by a Baltimore service station in 1919. It was reported on favorably by the Bureau of Standards and the navy's Aeronautical Engine Laboratory in Washington, D.C. Although dropped as a motor fuel in this country for economic reasons, the mixture is still used in Europe, some countries employing as much as 20 percent alcohol.

This work by USI had an interesting sidelight. US air force fighter planes during World War II employed alcohol-water injection systems for their engines to give sudden spurts of power when needed during combat, and alcohol was used in experimen s with V-2 and other rockets at White Sands, N.M.

During the 1930's and 40's, the company began production of butyl alcohol and derivatives and scored a number of advances in insecticide and resin technology. USI also pioneered the production of synthetic dl-methionine, an essential amino acid used in pharmaceu icals and in animal feeds. The company was one of the first producers of riboflavin, vitamin B12 and antibiotics by fermentation.

USI merged with National Distillers Products Corporation in 1951. A subsidiary of the lat er, National Petro-Chemicals Corporation, was then building a huge synthetic alcohol plant at Tuscola, Ill., which used natural gas as the raw material. Until that time all alcohol made by USI was produced by fermentation. Now with the industrial alcohol capacity of the Tuscola plant equal to 25 percent of the nation's previous output, USI uses the fermentation process only at its Anaheim, Calif., and New Orleans, La., plants.

The merger also made USI a large-scale producer of sodium, sodium peroxide and chlorine. Within the past three years new plants have been completed for the production of ethyl chloride, polyethylene, ammonia and sulfuric acid. Other plants, built or acquired, added caustic-chlorine facilities to the growing list and increased sulfuric acid capacity. Now under construction or on the drawing boards are four plants o produce phosphoric acid, sebacic acid isomers, and zirconium sponge and titanium sponge. Polyethylene capacity meanwhile is being more than doubled.

Monsanto Names Sales Mgr.

William T. Watt has been promoted to sales manager of surface coating resins for Monsanto Chemical Company's plastics division, Springfield, Mass.

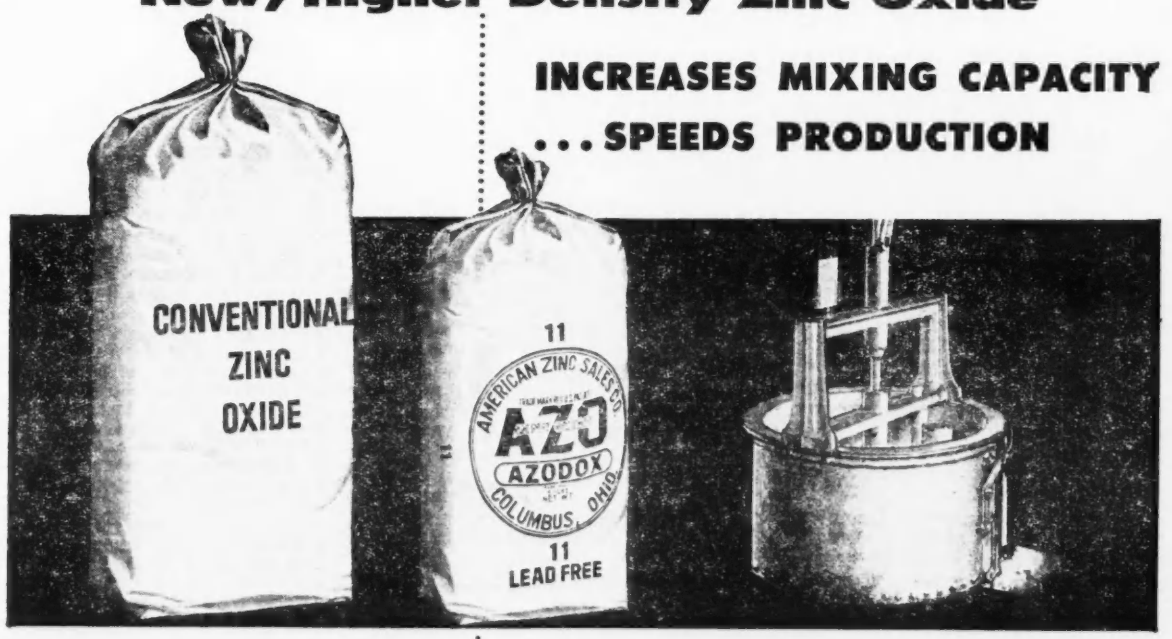
AZODOX

TRADE MARK

New, Higher Density Zinc Oxide

INCREASES MIXING CAPACITY

...SPEEDS PRODUCTION



HERE ARE OTHER REASONS WHY AZODOX IS BEST FOR YOU

Twice the Density, Half the Bulk. Cuts storage space in half. Despite high density, perfect texture of material is unchanged. AZODOX package is shaped, permitting close-packed, well-formed unitized shipments.

Flows More Freely, Less Dusting than conventional zinc oxides.

Physical Properties Unchanged Except for Density. Consistency, particle size and shape, color and all other physical properties of AZO-ZZZ, American Process, paint grade zinc oxides are unaltered. *Apparent density only is changed.* All chemical properties are unchanged.

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Drug Group Amalgamation

Every member of the drug trade, in all sectors and at all levels, must have more than a little interest in the proposed amalgamation of the two national organizations of manufacturers of what are popularly referred to as ethical products. All who believe in the value of unity must have at least a hope that the establishment of a single organization to succeed the two existing associations will be soon and satisfactorily achieved.

The group which is studying the proposal for the two organizations is said to be making some progress. Because of differences in the construction of the two organizations and in their systems of government, the joint committee has various problems to solve. Its task in that respect is, quite naturally, both burdened and lightened by the suggestions and other comment which are offered by their fellow members on both sides, with respect of the objective and the means of its attainment. It is, however, probable that a more or less specifically complete program will be presentable by the end of this year.

There are no logical reasons for the two associations to continue their separate existences. Such reasons—or excuses—as were more or less generally felt to exist at the time the younger of the two was established have in very large part gone with the many things that have been eliminated by the progress of the drug industry. The few differences which remain are quite readily soluble, at least in practicable, satisfactory compromise.

Much can be learned informatively for the drug project at the fundamental stage and to some extent in areas of procedure from the successful amalgamation of the two national organizations in the plant food industry. That undertaking faced many problems very similar to those which are to be solved in the drug movement. The procedure and results in the former case may well be studied earnestly by those concerned directly with the latter.

There is much to be thought of with reference to the governmental system of a business organization in the direction of the adoption of a two-house governing body. The upper house would consist of "elder statesmen," members of the industry or trade who have made their mark in the best records of its progress, selected without other condition. In the case of a reconstructed or successor organization, the upper house should be made up of the former presidents of the organization or organizations involved. Retiring presidents of the new organization should automatically become members of the upper house. Membership therein should be for life or until voluntary resignation. Membership of the lower house would comprise a representative of each regular member of the organization, selected by the member.

The respective duties and authorities of the two houses, acting separately or conjunctively, of course must be specifically defined in the by-laws.

Under such a setup, the presidency of the organization should be an honor, conferred at suitable intervals as a reward for service to the calling, after the manner of the selecting of "the man of the year" or a medalist, by joint action of the two governing groups. The practical work of the organization would be supervised by properly qualified heads of three departments—operations, relations, and regulations—also selected by the governing groups.

It may be argued that such a governmental procedure would detract substantially from the interest of conventions of the organization for its members. There is no good reason to expect such a result. In truth, the conventions could quite easily be made much more interesting for the members if there were no "politics" in them but more opportunity for every one in attendance to get up and "say his piece" on any and everything that might be brought up by anybody—including himself. Furthermore, it certainly would be much more democratic when every member would have a voice and a vote in such electing as was to be done than it is with the electing limited to those who are at a convention.

Argument may be directed also against an expectable lessening of interest on the part of those whose relation to the basic industry is not such as would entitle them to regular membership in the organization. It has been made evident time and again and it is being increasingly recognized that the best place for such interests is in some sort of an auxiliary group. The more selective an organization is in respect of qualification for membership, the better it can serve the industry or other calling which it represents, even though, as in the multi-organized drug industry, it may represent only a small (numerically) sector.

Government's Doing It Costs Too Much

In the ancient popular game of playing both ends against the middle, politicians, quite naturally, are past masters. Their ability and ardency are not, however, always matched with wisdom. So, it is not difficult for either end to see that it is not going to win anything worth while.

The game is just now getting into a special activity because of the big value of the "middle"—election to federal office. The two major "ends" are plainly in direct conflict one with the other. One of them is the rapidly fading expectation of easing of the burden of federal taxation. The other is the ever-increasing promissory promotion of a "better economic status" for agriculture and the small firm—to be paid for by the economically destatured contributor to the federal internal revenue receipts. Another "end" with which the politicians are playing promissorily is a successful revival of the issue of federal financing of public educational facilities, in which they will get a response in appreciative rooting that will be bigger than that whooped up by farmers or small firmers, because the population of the area affected—expectationally—by the school issue is much larger than the others.

Still another area is seeing a growing expediency to use it as an "end," involving the top stars of the game. The executive cabinet has been called upon to help the Office of Defense Mobilization toward a decision on the restoration of tax benefits for industries to assist—even to "stimulate"— plant expansion in anticipation of further "stimulated" economic growth—beyond the reach of overproduction.

Much of the assistance politically promised could be better attained by way of increasing the buying capacity of those upon whom the assistees must depend for existence by decreasing the margin between their on-the-books and take-home pay. That goes especially for the matter of "better economic status" for small firms and almost as much in the same respect for farmers. The small firm has its particular place in the world of business, just as has the small man, the small family, the small town, or the small nation in the world at large. It should be encouraged —yes, helped—to get full, proper recognition of that place and its potentialities, and then relieved of all inequitable handicaps to its making of effective use of that knowledge—another field for amendment of the federal tax system.

Government spending must be trimmed down to a reasonable, sensible, realistic pattern before the taxes which must finance it can be reduced. It may be possible—the big need for votes having been climbed over meanwhile— to effect some reduction of that spending before the end of the current fiscal year. Perhaps some useful suggestions and recommendations in one sector of dubious value may come out of the deliberations of the President's advisers on foreign aid, who are supposed to be guided by the "light of the foreign policy and national interests" of the United States—but under the program of "mutual security"(?) which can be and has been interpreted somewhat at variance with the second factor in that guiding light.

It is encouraging to have good reason to feel that the members of the foreign aid advisory group are men who can see that light for what it really is, and will be guided by it in clear, logical recognition, out of ability and experience, that, in that area of governmental relations with which they are to be concerned, as it is in those of the needs of farms or small firms, normally developed and promoted trade can be, and is, far more helpful in both directions than are financial handouts —no matter how well intentioned or how much more intelligently than usually handled.

Washington Talks It Over

Insecticide Makers Interest in Selling South of the Border Is Sparked by Meeting of Sanitary Organization.

By Ralph L. Cherry
Chief, OPD Washington Bureau

Manufacturers of DDT, benzene hexachloride and other potent bug killers have more than a passing interest in the ninth meeting of the directing council of the Pan American Sanitary Organization in session last week at Antigua, Guatemala. Much of the session was devoted to a discussion and making of plans for carrying on the malaria eradication program in the Western Hemisphere.

Eradication, rather than control, of the malaria carrying species of Anopheles mosquitoes, has been made the No. 1 health project of the Western Hemisphere calling for the use of millions of pounds of insecticides, chiefly DDT, during the next five years. It is estimated that the program will cost in the neighborhood of $113,885,000. Much of this is for equipment, training of personnel, etc., but a large share of the expenditures is for insecticides alone.

Public health efforts are being concentrated on eradication due to the fact that resistance to DDT is developing in certain Anopheles. This has shown up in several European centers and some evidence of a changed behavior to the insecticide has been exhibited by the mosquitoes in Central America. If the disease is to be eradicated it must be done now. To give this effort a new spurt, the American delegate to the ninth meeting announced that the US is making a special contribution of $1,500,000 to the Pan-Am bureau for expanded assistance in the campaign.

Mexico early last month launched its eradication program which will cost upwards of $15 million over the next five years. Some 700,000 houses and buildings throughout the country have been marked for spraying every six months for the next three years. Besides Mexico, six other Western Hemisphere nations—Brazil, El Salvador, Guatemala, Haiti, Honduras and the Dominican Republic — have either started or are about to start their eradication work.

Earth Satellite Partners

The chemical and petroleum industries are the working partners in the effort to be made next year to launch the much-talked about satellite. The satellite itself will be a 20-20 affair, about 20 inches in diameter and weighing about 20 pounds, but the whole assembly, the complete "Vanguard" vehicle made up of the satellite and its three stages of rockets, will be about 70 feet long and 45 inches in diameter.

This comparatively little ball of instruments which constitutes the satellite itself will get kicked off by a liquid rocket motor using liquid oxygen as the oxidizer and jet kerosene as fuel.

When the rocket is about thirty-five miles up and traveling at 5,600 feet per second, it will get another boost from nitric acid as the oxidizer and unsymmetrical dimethylhydrazine as the fuel. When this burns out about 140 miles up, the satellite will be traveling at nearly 14,800 feet per second.

It will continue to coast after the burnout to a peak altitude of about 300 miles. Then a single solid-propellant will fire to set the rocket spinning at 100 to 200 revolutions per minute for gyroscopic stability.

After the third stage burn-out small retroactive rockets will separate the satellite from the rocket case and send it on its course around the earth every ninety minutes.

Fats, Oils Marketing Year Begins

Today marks the beginning of another marketing year in fats and oils and agricultural experts report that supplies will be about as large as in the previous one. Smaller amounts of cottonseed oil, lard and butter in prospect will be offset by increased output of soybean oil.

The quantity of these fats, including oil equivalent of soybeans, available for export in 1956-57 would permit exports about equal to the record 2.7 billion pounds for the year just ended, and leave stocks on October 1, 1957 about the same as at the start of this new marketing year.

Cottonseed oil production will be down due to an 11 percent reduction in the 1956 cotton crop. Lard will be down because of a probable 10 percent drop in hog slaughter. Peanut production will be off 8 percent from 1955, but these will be offset by the record soybean output of 462 million bushels and the near record flaxseed production of 50 million bushels.

The big flaxseed crop means that there will be about 29 million bushels available for export and carryover. Because of increased availability of flaxseed from other countries, US export prospects are not as good as last year, the experts report.

GSA Unit Is Renamed

The stockpiling unit of General Services Administration has a new name. It's now known as the Defense Materials Service, which is more descriptive of the character of its present duties.

Contractors having dealings with GSA will recognize the agency as the former Emergency Procurement Service. It has been changed to Defense Materials Service because the defense activities of GSA have been concentrated into a single service and a new name had to be thought up to fit the functions of the agency.

Elmer Weaver, who has headed the Emergency Procurement Service since last June, has been assigned the job of running the new agency with the title of Commissioner. Mr. Weaver is a retired vice-president of Union Oil Company of California.

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c.l., works.....100 lbs. 4.60 • —
l.c.l., works .....100 lbs. 4.95 • 5.35
dms., c.l., works.....100 lbs 5.00 • —
l.c.l., works.....100 lbs. 5.35 • 5.75

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Stannous chloride, anhyd., dms., works lb. .805 -1.074
Hydrous (crystals), dms., works, works lb. .76 • .77
Sulfate, dms., works ..... lb. .924 • .944
Starch, corn, pearl

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l.c.l., works ..... ton.26.00 • —
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powd., super. bgs., c.l., works, lb. .05¼ • —
l.c.l. works ..... lb. .05½ • —
Squill, white, bls ..... lb. .17 • .19
powd., bbls. bxs ..... lb. .18 • .21
St. John's bread, edible, bls lb. .13 • .15
Stannic chloride, anhyd., dms., works..lb. .752 • .762
Oxide, dms., dkd. E.....lb. .93½ • .94½

ground, bgs., ex-dock....ton.127.00 • —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 • .91
Carteret, N. J unit-ton. .88 • .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 • —

T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.25 • —
l.c.l., same basis ..... lb. 1.30 • 2.30
Isopropyl, ester, dms., c.l., works, frt. equald. lb. 1.30 • —
l.c.l., works.....lb. 1.35 • —

solid, dms., frt. alld..... lb. .61 • —
m-Toluidine, dms., c.l., works, frt. alld. lb. .79 • —
l.c.l., same basis..... lb. .80 • —
tanks, same basis ..... lb. .78 • —
o-Toluidine, dms., c.l., works, frt. alld. lb. .23 • —
l.c.l., same basis..... lb. .24 • —
tanks, same basis..... lb. .22 • —
p-Toluidine, flake, dms., frt. alld. lb. .64 • —
solid, dms., frt. alld. ..... lb. .60 • .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. ..... gal. .34 • —
Birmingham dist..... gal. .32 • —
Chicago dist ..... gal. .35 • —
Cleveland dist..... gal. .32 • —
Geneva, Utah ..... gal. .26 • —
Johnstown, Pa. ..... gal. .32 • —
Lackawanna, N. Y.....gal. .35 • —

V

Vitamin A acetate, syn., crystalline, beads 500,000 A units per gram, gram, • —
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Heavy Chemicals

More than twenty large volume heavy chemicals will be advanced today on spot, contract, or both. Leading the advances are caustic soda and soda ash on spot, and chlorine on contract. Increases in these materials have spurred boosts in a number of chemicals reliant on them as raw materials. Some silicates, chromic acid, and bichromates will go up November 1 on contract owing to the soda ash advance. They will be advanced on spot today.

Several alkali producers reported a surge in orders as last week drew to a close, as consumers bought on contract in large volume in order to beat the October 1 contract advance.

Mineral acid sales appeared to have recovered well from the summer slump. Following a lackluster market position during the first two weeks of August, sales of hydrochloric, nitric and sulfuric acid have steadily climbed.

It looked as if the major phosphates would continue unchanged in price, at least for the fourth quarter. There had been some agitation for higher quotations following announcement of increased prices in soda ash, but nothing developed in time for the quarterly deadline.

Prices of aluminum sulfate also are expected to hold for the balance of the year. Although the recent increase in calcined alumina put pressure on current listings, producers appeared content to hold the line for the time being.

Stocks of crude saltcake declined again at the end of July, following a pattern which has existed since January 31. At this point, no one seemed worried about a possible future shortage.

The American Paper and Pulp Association reported production for the week ended September 22 at 99.4 percent of theoretical capacity, as compared with the revised figure of 99.0 percent for the previous week and 98.5 percent for the corresponding week of last year.

Acid, Hydrochloric—Demand was said to have worked its way out of the summer doldrums. Revival of inquiry from the steel industry following its strike in the summer has played a key part.

Not to be overlooked, however, was the rest of the broad end-use pattern. Small volume business was also reported active again after a slow period that lasted most of August.

Basic prices for hydrochloric acid continued unchanged, varying as to locale, particularly where large amounts of by-product acid influenced the market.

Acid, Nitric — Stainless steel inquiry continued strong and active last week. Most end uses showed good recovery from the summer slack period. Quotations of long standing held without change.

Acid, Phosphoric — For a long while there was agitation for higher prices in not only phosphoric acid, but many of the higher sodium phosphates as well.

This consideration of price rises was attributed mainly to increases in the price of soda ash, as well as other increments in processing and handling.

However, as the third quarter rolled to a close, no changes were forthcoming. Since many firms issue contracts on a quarterly basis in this industry, it was deemed unlikely that there would be any lifting of quotations until January 1.

Acid, Sulfuric—Sulfuric demand was active last week, and producers felt that the market had finally recovered from the midyear slump which prevailed during the last two months.

It was noted that this acid seemed to recover from the summer slowdown more slowly than the other mineral acids. This was partly attributed to the steel strike, and partly to a highly unsatisfactory (in the views of some) fertilizer market during the summer.

Aluminum Sulfate—Demand for use in the paper industry continued active, in view of high paper production levels, which have been maintained for months.

Although calcined alumina was recently increased, and other raw materials, labor, and processing costs have gone up, prices of long standing held without change, and no increase was contemplated for the fourth quarter.

Chlorine—Liquid chlorine contract prices were advanced effective today. Buying interest for use in chlorinated organics, paper and textile bleaching, and for water and sewage treatment was well sustained.

Soda, Caustic—Paper industry demand was strong, and rayon inquiry, while not

October 1 Price Advances

Aluminum chloride, coml., anhyd., ½c. per lb.
cryst., $1.50 per cwt.
Ammoniac, sal, gray, 75c. per cwt.
Calcium hypochlorite, $2.15 per dm.
Lime, $1 per ton.
Potassium chlorate, 1c. per lb.
Soda ash, dense, light, 10c. per cwt.
Soda, caustic, flake, 20c. per cwt.
liq., 10c. per cwt.
solid, 20c. per cwt.
Soda, sal, conc., 20c. per cwt.
Sodium bicarbonate, 15c. per cwt.
Bisulfite, anhyd., 50c. per cwt.
Carbonate, monohydrated, 10c. per cwt.
Hyposulfite, anhyd., $1.05 per cwt.
pea crystals, 65c. per cwt.
photo grade, 50c. per cwt.
tech., pentahydrate, 65c. per cwt.
Metasilicate, anhyd., 35c. per cwt.
Pentahydrate, 20c. per cwt.
Orthosilicate, conc., 40c. per cwt.
hydrated, 25c. per cwt.
Sesquicarbonate, 10c. per cwt.
Sulfhydrate, flake, ¼c. per lb.
liq., $5 per ton.
Sulfide, ¼c. per lb.
Tetrasulfide, ½c. per lb.
Zinc chloride, soln., 30c. per cwt.
tech., fused, 60c. per cwt.
gran., 60c. per cwt.
Zinc-ammonium chloride, 60c. per cwt.

Price Trends

Advanced
Stannic oxide, 1½c. per lb.

Reduced
Potassium stannate, 0.4c. per lb.
Sodium stannate, 0.5c. per lb.
Stannic chloride, 0.5c. per lb.
Stannous chloride, anhyd., 0.6c. per lb.
hydrous, cryst., 0.5c. per lb.
Sulfate, 0.6c. per lb.
Tin, ¾c. per lb.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
101.96	101.96	101.96	99.84

For Current Prices see Page 9

Inorganic Chemicals Output: June

The following figures compiled by the Bureau of Census indicate production of industrially important inorganic chemicals, in tons.

	July	June
Acid, chromic	898	1,306
Hydrochloric	57,773	74,168
Hydrofluoric	6,184	6,424
Nitric	170,341	177,228
Phosphoric	235,900	299,338
Sulfuric, new	1,077,690	1,213,702
Aluminum chloride, anhyd.	2,330	2,712
liq., cryst.	1,067	1,200
Calcium carbide	74,490	83,824
Carbon dioxide, liq., gas.	27,837	26,643
solid	67,165	65,782
Chlorine gas	254,535	308,928
Phosphorus, elemental	24,299	25,360
Oxychloride	1,144	1,554
Trichloride	1,136	1,464
Potash, caustic, liq.	5,575	7,981
solid	1,789	1,688
Soda ash, light	200,735	211,407
dense	169,923	159,969
natural	55,745	47,001
Soda, caustic, electrolytic liq.	251,313	312,420
lime-soda, process, liq.	31,706	34,884
Sodium Bicarbonate	7,175	7,821
Chlorate	4,333	4,895
Metal	11,617	10,428
Phosphate, monobasic	565	597
Dibasic	2,163	2,224
Tribasic	3,220	3,587
Meta	4,735	5,275
Tetra	7,228	8,260
Acid pyro	1,491	1,402
Tripoly	42,464	48,576
Silicate	45,569	46,827
Sulfate, anhyd	20,671	21,371
Glaubers salt	9,233	10,939
Saltcake, coml	52,693	52,482
Sulfide, conc	2,037	2,786
other	2,599	2,661
Sulfur dioxide	5,099	5,032

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Heavy Chemicals

up to the 1955 pace, was showing signs of improving. Prices for all grades will be advanced today from 10c. to 20c. per hundred pounds, depending on grade.

Tin Chemicals—With lower tin, potassium stannate was down to 72.1c. to 78.7c. per pound; sodium stannate, 59.3c. to 64.7c.; stannic chloride, 80.9c. to 81.9c.; anhydrous stannous chloride, 94c. to $1.208; crystals, 82c. to 83c.; and sulfate, 99.3c. to $1.007. Oxide was higher, due to earlier strength in tin, and was quoted at $1.08 to $1.09 per pound.

Nonferrous Metals

Aluminum—Domestic production of primary aluminum reported by the producers in June totaled 145,726 short tons, a decline of 5,074 tons, or 3.4 percent compared with May, according to the Bureau of Mines.

The decline was attributed to the shorter month, as the average daily output was approximately the same as during May. Production for the second quarter of 1956 reached a new high of 441,252 tons, 5.3 percent above the first quarter and 14.5 percent above the same period of 1955. The first half of the year showed an increase of 13 percent over the first half of 1955.

Industry has attained sufficient capacity to produce nearly 1.75 million tons of aluminum metal annually, excluding facilities planned or under construction.

A slight decline in demand for aluminum occurred during June. Shipments from reduction plants dropped 12,789 tons or 8.4 percent, compared with May. With reduced shipments, rising production, and suspensions of calls for the government stockpile, month-end inventories increased for the first time since March.

Copper—Primary metal continued priced by American producers at 40c. per pound, delivered US destinations, for electrolytic.

Tin—The Suez crisis lessened in importance as a factor in the market last week. Metal fluctuated near $1.05 per pound, spot.

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Chemical Rust Inhibitor To Benefit US Motorists

Car owners will benefit directly from a chemical that can be added to gasoline to prevent rusting of tankers, pipelines and storage vats used in the refining and distribution of fuel.

A "highly effective rust inhibitor" called N-oleoyl sarcosine, already commercially available to petroleum refiners and transportation companies, will remain in the gasoline to a sufficient extent to protect the iron and steel surfaces contacted by the fuel in the motorist's automobile, Robert M. Pines, a chemist of Alrose Chemical Company, Providence, R. I., told the recent 130th national meeting of the American Chemical Society in Atlantic City, N. J.

"In general, the public will not be likely to be aware of the benefits the inhibitor confers on the products in which it is used," Mr. Pines commented.

"Industrial users of turbine oils, preservative oils, slushing compounds and synthetic and petroleum oils and greases will be most directly benefited by its rust inhibitive properties. (A slushing compound is an oil or grease used to give temporary rust protection to a metal surface.)"

The new inhibitor is one of a group of acyl sarcosine chemicals manufactured by the Geigy Chemical Corporation, of which Alrose is a division, Mr. Pines explained. These compounds have interesting foaming, detergent and anti-enzyme qualities in addition to their corrosion-inhibiting properties, he said.

P. A.'s Bullish

—Continued from page 3

executives find inventories of certain items temporarily too high or too low, it is evident that most are satisfied with the over-all situation. The low inventories of some critical items such as steel and nickel, particularly with current indications of a booming fourth quarter, are the greatest concern of many.

A slight improvement is noted in this month's report on employment. The number stating employment as worse than a month ago has dropped to the same level indicated in the high employment period early in the year. However, this improvement seems to be gradual rather than abrupt.

Buying Policy

The lead time required for buying production materials remains substantially unchanged from last month's reported sixty- to ninety-day range. The only significant variance is the increased order lead time necessary to get certain steel items.

Forward buying of MRO materials has been extended slightly this month, with lead time being increased more toward the ninety-day range, rather than the shorter periods that have been prevalent in recent months.

Little change is noted in the six months to one year advance ordering required to get delivery of most large capital goods items.

The trend is clear, with very few items being reported as down in price.

On the up side are: Aluminum, steel and steel scrap, tin, caustic soda, chlorine, alcohol, soda ash, phthalic anhydride, paper and corrugated boxes, meat, tools, rubber, machinery, gray iron castings, bearings, fibre barrels, typewriters, electric motors, electric apparatus and equipment, cement, wax and hardware.

On the down side are: Some copper items, glycerine, ammonia and lumber.

In short supply are: Aluminum, nickel, steel in many forms, paper and kraft, cellophane and bearings.

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Trade Agreements Law Hit by Hooker

—Continued from page 3

an equivalent of 46.7 percent ad valorem in 1934 to 12.6 percent in 1955.

His first attack was against the procedures followed in preparation of the list of items subject to trade agreement negotiations. By executive order a trade agreements committee was established through which the President would seek the advice of the various agencies of government. But no procedure is provided for preparation of the preliminary list, he pointed out, although after the list has been submitted and approved by the President for publication both the Tariff Commission and the Department of Commerce are directed to make an analysis of the facts relative to trade, production and consumption of the items listed, and probable effect of granting a concession.

A major defect exists in the procedure followed in the Commerce department in implementing the executive order, Mr. Hooker continued, because responsibility is placed in the Bureau of Foreign Commerce rather than in the office of the assistant secretary for domestic commerce. Judging by results, he added, it appears that the technical judgment of the industry divisions in the domestic commerce "side" of the department has either been ignored or stifled.

"In summary on this point," Mr. Hooker said, "I submit that (1) no procedure has been established which must be followed by the executive department personnel in preparing the preliminary list of articles for trade agreement negotiation; (2) the procedure which is followed is not designed to develop the kinds of facts which the statute requires as a condition precedent to a trade agreement; (3) the procedure seems designed to isolate the decision-making from any serious consideration of the characteristics and needs of American producers."

Mr. Hooker also complained of the inadequate time allowed domestic industry to comprehend, analyze and submit views and the type of information asked for to the Committee for Reciprocity Information relative to the items selected for negotiation. The items involved are too often concealed by inadequate classification or by a basket-clause reference, he added.

Questions Time

He also seriously questioned whether the Tariff Commission could have adequate time in the 120 days allotted to do its job properly of determining the "peril points" for the hundreds of items subject to negotiation. He said it must often reach a decision on the basis of information of a type which it would very likely not even consider as sufficient basis for an application for an investigation under the escape clause.

As to the actual negotiations of the tariff reductions, Mr. Hooker said these consist of each country giving to the other a list of concessions it was prepared to offer. Although negotiations are supposed to be conducted on a selective product-by-product basis, he added, members of the US team have no authority to decide whether or not concessions ought to be granted on any listed items, but the "whole effort is to get the other countries to match the US list by concessions on items equaling the volume of trade represented by the US list."

"This procedure is a far cry from the promises made to both congress and domestic industries," Mr. Hooker said, "that the authority granted in H. R. 1 would be used to carry out new trade agreement reductions on a selective reciprocal basis. There is no selectivity in handing the other countries the full list of items approved for consideration by the President where the US negotiators have no authority to refrain from granting a concession on any item appearing on the list."

Magnesium-Thorium Alloy Is Made Available by Dow

A magnesium-thorium alloy for building higher performance into the nation's supersonic aircraft and missiles has been announced by Dow Chemical Company, Midland, Mich.

The new sheet and plate alloy, designated as "HM21XA-T8," is the second in a series designed by Dow to meet a critical defense need—a structural airframe material that combines light weight and strength with the ability to withstand intense heat generated by friction at supersonic speeds.

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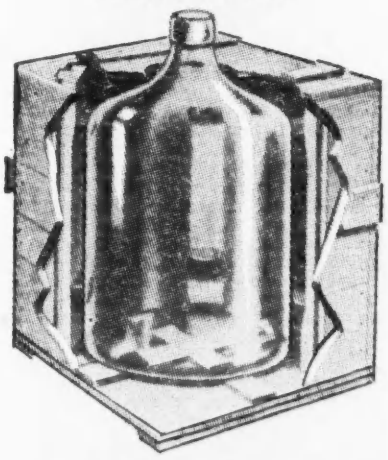

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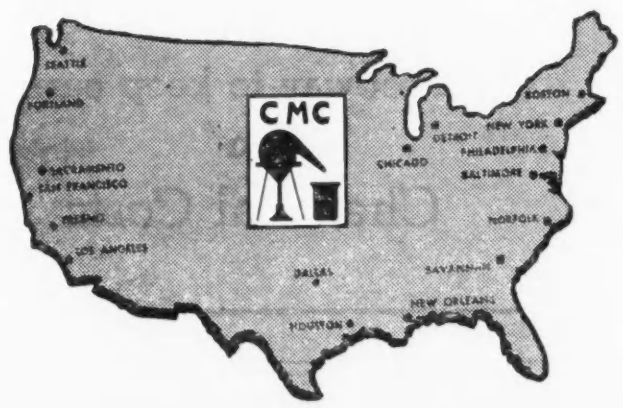

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Agricultural Chemicals

The market remained relatively easy in tone last week dealers here reported. With the exception of two price shifts in the animal proteins market, brought on by the packing house strike, there was no quote movement. The two commodities advanced in price were bonemeal which went up $5.00 per unit ton to a $60 listing and tankage which advance 25c. per unit ton to a $5.50 listing for New York and advanced 50c. per unit ton to a $6.75 listing for Chicago. Both commodities are expected to remain tight, at least for the duration of the strike.

Reports from St. Louis noted a price shading of $2 per unit ton for ammonium sulfate. The official listing for many producers continued at $34. However, most producers acknowledged that the $32 figure was realistic and had been in effect for some time. Sales for this material was reported to be better than at this time last year. This was attributed to the commodities lower price, enabling it to better compete with other material in the same market.

Pesticide sales continue to show slight growing strength as inquiries from overseas seasonal market areas prospered. Some producers reported this as intimations of a pending heavy season.

Price Trends

Advanced

Bonemeal, $5 per unit-ton.
Tankage, N. Y., 25c. per unit-ton.
Chicago, 50c. per unit-ton.

Reduced

None.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
108.11	107.28	106.30	110.78

For Current Prices see Page 9

October 1 Price Advances

Anhydrous ammonia, $3 per unit-ton.
Nitrogen fertilizer, 4c. per unit-ton.

Animal and Plant Foods

Ammonia, Anhydrous — Sales reports for this material over the past few months show little movement of any sort, dealers here report.

Information from the Bureau of Census noted that July production of anhydrous ammonia amounted to 158,941 short tons while stocks at the end of month were tallied at 191,091 short tons. Figures for June noted 158,318 short tons of production and stocks of only 147,010 short tons. Production for July of 1955, it was reported, was 148,210.

Ammonium Nitrate — Production of original solution material (100%) amounted to 158,941 short tons in July as compared with the June figure of 158,318 short tons. The figure for July of the year previous had been 148,210 short tons. Stocks at producing plants at the end of July had mounted up to 191,091 short tons while the figure at the end of the month previous had stood at only 147,010 short tons.

Fertilizer grade material was produced at the rate of 129,296 short tons in July, a stronger amount than the 124,949 figure for the previous month. Production in July of 1955 had stood at 123,817 short tons. Stocks at producing plants had mounted up to 182,922 short tons while listings at the end of the previous month were tallied at 140,769 short tons.

Ammonium Sulfate — Dealers here on spot reported some slight movement in the market with a goodly quantity of material going into mixers hands for mixtures. Sales appear to be up from last year's position at this time, it was noted. This has been attributed to lower pricing enabling ammonium sulfate to compete with other materials in the market. Reports from St. Louis noted the price shading by a major producer to a $32 level from the official $34 per unit ton. However, the $32 figure had been considered by most dealers for some time to be a realistic figure. In some areas other listings have been reported such as $31 in Texas (reportedly lower quality material) and another variation in New England, but for the most part, the $32 figure has prevailed throughout the market.

Synthetic material production for July (exclusive of coke oven output) was computed by the Bureau of Census at 81,743 short tons as compared with 94,277 short tons produced the month previous. Both figures were higher than the 79,948 short tons tallied for July, 1955. Stocks at producing plants on July 31, 1956, totaled 88,174 short tons as compared with the 93,560 short tons of stock computed for the end of June, 1956.

Animal Proteins — Dealers here reported price advances in bonemeal and tankage. Both advances have been attributed to the packing worker strike. Bonemeal advanced $5 per unit ton to a $60 listing; tankage went up 25c. per unit ton to $5.50 in New York and 50c. per unit ton to $6.75 in Chicago.

During July a total of 5.2 million gallons of fish-body oils and 54,554 tons of fish meal and scrap was produced in the United States and Alaska, according to a report by the Department of the Interior. Compared with the production during the same month of last year, this was an increase of 381 thousand gallons (8 percent) in the yield of oil and a gain of 1,948 tons (4 percent) in meal and scrap production. Mehaden production amounted to 44,067 tons of meal and scrap—2 percent less tan that reported for the same month of last year and the oil yie.d (4 million gallons) was also down 6 percent.

Imports of fish meal into the United States during June amounted to 8,559 tons compared with 7,300 tons imported during the same month of the year previous.

Castor Pomace—Dealers here reported a continued absence of this material on spot. The listing continued nominal at $35 per unit ton

Phosphates—United States July production of superphosphate and other phosphatic fertilizers amounted to 136,635 short tons (100 percent A.P.A.), a decrease of 19 percent from the June output, according to the Bureau of Census. Shipments of superphosphate and other phosphatic fertilizers during the month totaled 95,986 tons or an increase of 17 percent over the previous month's volume. Stocks on hand at the end of July were 4 percent more than those held on June 30.

Potash Muriate—Though market conditions remained unmoved from their previous position, dealers here reported that the heavy quantity of material recently shipped to Japan has lightened the previously over-heavy stock on spot. The total effect of the shipment, it was said, remains to be felt.

Pesticides

Calcium Arsenate—Production of this material during the month of July, according to the Bureau of Census, amounted to 4,044 short tons as compared with the much smaller 2,010 short tons produced during the previous month. Stocks at producing plants during July and June were virtually identical, the former standing at 2,018 short tons and the later at 2,023 short tons.

Superphosphate Production: Jan.-July

Following are data compiled by the Bureau of Mines indicating superphosphate production and shipments for the United States, January-July for 1955-56. Included is percentage change from 1955 to 1956.

Grade	1956 in short tons 100% A.P.A.		1955 in short tons 100% A.P.A.		1956 percentage change from 1955	
	Production	Shipments	Production	Shipments	Production	Shipments
Normal	921,604	509,639	894,252	488,515	+ 3	+4
Enrich	(d)	(d)	26,252	8,807	(d)	(d)
Concentrated	467,651	432,972	404,124	396,588	+16	+9
Wet-base goods	(d)	(d)	4,501	5,769	(d)	(d)

Aliphatic Organics

This week's market will see a one-half cent increase in a broad pattern of solvents. Effective on spot and contract today, synthetic amyl alcohols, n-butyl, isobutyl and n-propyl alcohols will be boosted across the board. Included in the rise will be some of the ester solvents and ketones. Isopropanol, which was scheduled by some makers to be advanced October 1, looked as if it would continue unchanged. Other producers indicated that they would not go along with the increase, in view of current plentiful stocks and a competitive market.

A producer announced price increases for propylene and dipropylene glycols and propylene oxide, to go into effect today. As yet, there was no report of anyone else meeting the increase.

Acrylonitrile was put up effective today on contract. As with the price rises in alcohols and other solvents, increases were said to have been necessitated by mounting costs of material, labor, freight and processing.

Ethyl acetate was moved up today in line with the other ester solvents. Producers continued to announce intentions of holding the line on perchloroethylene and trichloroethylene, at least for the fourth quarter.

This was done in the face of a recently announced advance in the price of liquid chlorine, scheduled to go into effect today on contract.

PriceTrends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
130.20	130.20	130.97	130.97

For Current Prices see Page 9

October 1 Price Advances

Alcohol, amyl, ex pentane, mixed, ½c. per lb.
primary, ½c. per lb.
sec-synthetic, ½c. per lb.
tert-synthetic, ½c. per lb.
n-Butyl, fermentation, ½c. per lb.
synthetic, ½c. per lb.
Isobutyl, ½c. per lb.
n-Propyl, ½c. per lb.
Amyl acetate, ex pentane, ½c. per lb.
n-Butyl acetate, ½c. per lb.
sec-Butyl acetate, ½c. per lb.
Di-isobutyl ketone, ½c. per lb.
Ethyl acetate, ½c. per lb.
Isobutyl acetate, ½c. per lb.
Isopropyl acetate, ½c. per lb.
Mesityl oxide, ½c. per lb.
Methyl ethyl ketone, ½c. per lb.
Methyl isobutyl carbinol, ½c. per lb.
Methyl isobutyl ketone, ½c. per lb.
n-Propyl acetate, ½c. per lb.

Acrylonitrile—Effective today, this material was increased 1c. per pound across the board on contract. New Prices are:—

Tankcars, 28c. per pound, f.o.b. works, freight equalized with the nearest producing point; 31c. per pound, drums, carlots, same basis, and 32c. per pound, less carlots, same basis.

Amyl Acetate—Synthetic amyl acetates were raised ½c. per pound across the board, effective today on spot and contract. Amyl acetate from fusel oil was not changed. New synthetic prices are:—

Ex pentane regular, 16c. per pound, tankcars, delivered; 18½c. per pound, drums, carlots, delivered, and 19½c. per pound, less carlots, delivered.

Ex pentane technical, 14c. per pound, tankcars, delivered 16½c. per pound, drums, carlots, delivered, and 17½c. per pound, less carlots, delivered.

Synthetic oxo process, 17¾c. per pound, tankcars, delivered; 19¾c. per pound drums, carlots, delivered, and 20¾c. per pound, less carlots, delivered.

Amyl Alcohol—Synthetic materials were increased ½c. per pound across the board on spot and contract, effective today. Fermentation and refined fusel oil continued without change. New synthetic quotations are:—

Ex pentane, mixed amyls, 16c. per pound, tankcars, freight allowed; 18½c. per pound, drums, carlots, same basis, and 19½c. per pound, less carlots, same basis.

Primary, 17¾c. per pound, tankcars, freight allowed; 19¾c. per pound, drums, carlots, same basis, and 20¾c. per pound, less carlots, same basis

sec-Synthetic, 17c. per pound, tankcars, freight allowed; 19c. per pound, drums, carlots, same basis, and 20c. per pound, less carlots, same basis.

tert-Synthetic, 16c. per pound, tankcars, freight allowed east; 18½c. per pound, drums, carlots, same basis, and 19½c. per pound, less carlots, same basis.

Butyl Acetate — Effective today on spot and contract, prices for butyl acetates were increased ½c. per pound across the board. Material is currently quoted at:—

n-Butyl acetate, synthetic, 14c. per pound, tankcars, delivered east; 16½c. per pound, drums, carlots, same basis, and 17½c. per pound, less carlots, same basis.

sec-Butyl acetate, 11¾c. per pound, tankcars, delivered east; 13½c. per pound, drums, carlots, same basis, and 14¼c. per pound, less carlots, same basis.

Butyl Alcohol—Synthetic and fermentation butanols advanced ½c. per pound on spot and contract, effective today. Materials were newly quoted at:—

Synthetic, 14c. per pound, tankcars, delivered; 16½c. per pound, drums, carlots, same basis, and 17½c. per pound, less carlots, same basis.

sec-Synthetic, 12c. per pound, tankcars, delivered; 14½c. per pound, drums, carlots, same basis, and 15½c. per pound, less carlots, same basis.

tert-Synthetic, 12½c. per pound, tankcars, freight allowed; 14½c. per pound, drums, carlots, same basis, and 15½c. per pound, less carlots, same basis.

Fermentation, refined, 14c. per pound, tankcars, freight allowed; 16½c. per pound, drums, carlots, freight allowed, and 17½c. per pound, less carlots, same basis.

Carbon Tetrachloride—Consuming demand for use as a raw material in manufacture of fluorinated propellents has shown a vast expansion over the past few years.

Popularity of aerosol dispensers for shaving creams, household cleaning agents, deodorants and insecticides, among many other products, has grown by leaps and bounds.

This has caused a sizable increase in use of carbon tetrachloride. The trade looked for even greater expansion in the aerosol field, as more and more products become adapted to this particular use.

The rise in recent years of use of home air conditioning units, as well as a steady increase in consumer purchasing of refrigerators and deep freeze units, has also accounted for a substantial rise in consumption of fluorocarbon refrigerants, for which carbon tet is a raw material.

In contrast to the previously mentioned expanding markets, end uses in fire extinguishers and as a cleaning solvent held about steady. There has been some indication during the last few years of a switch to fluorocarbons in fire extinguishers, since these materials offer more safety in handling than does carbon tetrachloride itself.

Di-isobutyl Ketone—This lacquer solvent went up ½c. per pound on spot and contract, effective today. New prices were:— 14½c. per pound, tankcars, delivered; 17c. per pound, drums, carlots, same basis, and 18c. per pound, less carlots, same basis.

Ethyl Acetate—Although ethyl alcohol continued without change, this ester was moved up ½c. per pound, effective today, in line with other ester solvents. New prices were as follows:—

Natural fermentation, 85-88 percent, 12c. per pound, tankcars, freight allowed; 14½c. per pound, drums, carlots, same basis, and 15½c. per pound, less carlots, same basis.

Ninety-five to 98 percent, 12¼c. per pound, tankcars, freight allowed; 14¾c. per pound, drums, carlots, same basis, and 15¾c. per pound, less carlots, same basis.

Ninety-nine percent, 12½c. per pound, pound, tankcars, delivered 14¾c. per tankcars, freight allowed; 15c. per pound, drums, carlots, same basis, and 16c. per pound, less carlots same basis.

Synthetic 85-88 percent, 12c. per pound, tankcars, delivered; 14½c. per pound, drums, carlots, same basis, and 15½c. per pound, less carlots, same basis.

Ninety-five to 98 percent, 12¼c. per pound, tankcars, delivered 14¾c. per pound, drums, carlots, same basis, and 15¾c. per pound, less carlots, same basis.

Ninety-nine percent, 12½c. per pound, tankcars, delivered; 15c. per pound,

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Aliphatic Organics

drums, carlots, same basis, and 16c. per pound, less carlots, same basis.

Isobutyl Acetate—Solvent grade isobutyl acetate was raised ½c. per pound, effective today on spot and contract. Tankcars were newly quoted at 12¼c. per pound, tankcars, delivered east of the Rockies; 14¾c. per pound, drums, carlots, same basis, and 15¾c. per pound, less carlots, same basis.

Isobutyl Alcohol—Isobutanol was raised ½c. per pound, effective today, and was newly quoted at 13c. per pound, tankcars, delivered; 15½c. per pound, drums, carlots, same basis, and 16½c. per pound, less carlots, same basis.

Isopropyl Alcohol—It appeared last week that isopropanol would continue without change. Earlier, some makers had announced advances on all grades of 3c. per gallon across the board, to become effective October 1 on spot and contract.

However, the industry did not meet the announced advances, and as the third quarter drew to a close, it did not look to the trade as if price increases would hold.

Failure of the isopropanol advance to materialize was thought due to current plentiful supplies and a competitive market position. The rollback in quotations did not affect the increase in isopropyl acetate, however.

Isopropyl Acetate—This ester solvent went up ½c. per pound, effective today, and was priced at 11c per pound, tankcars, delivered; 13½c. per pound, drums, carlots, same basis, and 14½c. per pound, less carlots, same basis.

Mesityl Oxide—Effective today, prices were advanced ½c. per pound, to 12c. per pound, tankcars, delivered; 14½c. per pound, drums, carlots, delivered, and 15½c. per pound, less carlots, same basis.

Methanol—Contract quotations, effective today, went up 1c. per pound on drum differentials. Methanol in drums was quoted at 46c. per pound, drums, carlots, delivered east, and 53c. per pound, less carlots, same basis. Prices have already been in effect on spot. No change on tankcars or tanktrucks.

Methyl Ethyl Ketone—This solvent was put up ½c. per pound, effective today, and was newly quoted at 12c. per pound, tankcars, delivered; 14½c. per pound, drums, carlots, same basis, and 15½c. per pound, less carlots, same basis.

Methyl Isobutyl Carbinol—This solvent went up ½c. per pound, effective today, and was newly quoted at 14c. per pound, tankcars delivered; 16½c. per pound, drums, carlots, same basis, and 17½c. per pound, less carlots, same basis.

Methyl Isobutyl Ketone—With other ketones, MIBK rose ½c. per pound, effective today, and was priced at 14c. per pound, tankcars, delivered; 16½c. per pound, drums, carlots, same basis, and 17½c. per pound, less carlots, same basis.

Pentaerythritol—Prices continued without change, with material quoted at 32c. per pound, bags, carlots, f.o.b. works, and 33c. per pound, less carlots, same basis.

Demand continued active for use in PE-modified alkyds and rosin esters, owing to stepped-up inquiry from the paint trade for fall seasonal use.

Propylene Glycol—One producer has announced price increases effective today on spot for dipropylene and propylene glycols and propylene oxide. The three items were up ½c. per pound.

n-Propyl Acetate—Effective today, n-propyl acetate was boosted ½c. per pound, and was listed at 13¼c. per pound, drums, carlots, f.o.b. works.

Perchloroethylene—Feeling was definite last week that present quotations for perchloroethylene and trichloroethylene would hold unchanged for the balance of the year.

Vinyl Acetate Monomer—Since polyvinyl acetate emulsion resins have grown rapidly in paint vehicle use over the past few years, producers of the monomer have enjoyed steadily increasing demand from that quarter.

Although producers of the emulsions have called for caution on the part of consumers to avoid problems of misapplication, the versatility of polyvinyl acetate paints for both exterior and interior use has caused a rapid expansion in sales.

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Textile, Leather Chemicals

While consuming demand for textile and leather chemicals was confined to prompt requirements the volume of business has shown steady improvement since the first of the month. Inquiry for forward delivery was more active, but most consumers were content to limit purchases to prompt needs. Prices continued to display a steady undertone and were well held at prevailing levels.

The recent advance in bichromates reflected the higher price of soda ash and other manufacturing costs. This also created a firmer tone in sodium hydrosulfite, though prices were quotably unchanged.

In sizing materials, steady improvement was noted for prompt delivery. High cost and scarcity of shipments of Brazilian tapioca flour kept this market a nominal affair. Siamese flour continued to move in good volume against current contracts. Consuming inquiry in new crop potato starch was limited, but was expected to improve later in October when new production was expected to begin. In the meantime, a steady call was reported for spots on the spot. Egg derivatives were in good request for actual needs. Prices were unchanged, but yolk was firm owing to limited available supplies.

Valonia extract was stronger and replacements were lifted one-half cent per pound, reflecting the recent increase of shipment for cups and beards. Other tanning materials were in fair request for nearby shipment. Primary markets continued steady.

Shoe production in August exceeded expectations and totaled about 53,000,000 pairs. This total, however, was 2 percent less than in August last year. Indications are that only in the women's category and infants and babies footwear output was below August, 1955. Production in September was expected to be less than the August peak and total about 47,000,000 pairs, compared with 50,610,000 in September last year, a decline of 7 percent. The decline in August reduced the eight month gain to 2 percent for this year over the same period in 1955. The estimated shoe production for the nine months ended September is 447,862,000 pairs, compared with the actual total of 440,304,000 for the same period in 1955 and 395,318,000 in 1954.

PriceTrends

Advanced
Valonia extract, ½c. per lb.

Reduced
None.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
107.71	107.71	107.41	104.27

For Current Prices see Page 9

Chemicals

Bichromates—This market was strong, reflecting the recent advance of ¾c. to 1 1/2c. per pound. Sodium bichromate, granular was lifted to 13c. per pound, bags, carlots; works; potassium bichromate, 18c., carlots; sodium chromate, anhydrous, 14¾c., carlots and sodium chromate, tetrahydrate, 13.2c., carlots, same basis. Production of sodium bichromate and chromate in July was indicated at 7,779 tons, against 9,444 in June and 9,690 in July last year according to the Census Bureau Stocks at producing plants totaled 6,979 tons, July 31 against 7,138 tons, June 30.

Sodium Acetate—Moderate demand was noted for prompt delivery. Prices were maintained at former levels.

Sodium Hydrosulfite—Market remained firm and quotably unchanged. Consumers absorbed larger lots for prompt needs. Production in July totaled 1,281 tons, compared with 2,748 in June and 1,720 tons, July last year. Stocks at producing plants amounted to 991 tons, July 31 against 635 tons, June 30.

Sizing Materials

Corn Starch—Good volume of consumer buying was noted for immediate and later delivery. Market remained steady at prevailing quotations. Pearl was quoted at $7.27 per 100 pounds, paper bags, carlots, New York, and powder, $7.39, same basis. Less carlots were 15c. per 100 pounds higher. Visible corn supply increased 139,000 bushels at 42,884,000 bushels for the week ended September 21, compared with 21,085,000 bushels for the corresponding week last year it was reported by the Chicago Board of Trade.

Egg Albumin — Consumers absorbed fair sized quantities for prompt requirements. Market was unchanged and steady. Flake was quoted at $1.85 to $1.87 per pound, and powder, $1.89 to $1.91 per pound, spot, as to quantity. Technical was scarce and firm at $1.08 to $1.10 per pound, same basis.

Egg Yolk—Stocks were reported in limited supply and closely held at $1.07 to $1.09 per pound, spot, according to quantity. Demand was fairly active.

Potato Starch—Consumers continued to restrict demand for actual needs. Interest in new crop starch was still quiet due to expectations that prices will be materially lower. Carlots were merely nominal around 7c. to 7¼c. per pound, carlots, f.o.b., mills Maine. Offers of new crop were due about mid-October. Stocks on spot were unchanged at 8¾c. to 9¾c. per pound, exwarehouse, as to quantity. Idaho starch was unchanged at 6¼c., carlots, f.o.b. mills and 6c. for delivery to eastern destinations. Dutch was maintained at 7 1/2c. per pound, carlots, exdock, duty paid, prompt shipment.

Department of Agriculture has announced that it will assist the potato industry in the successful marketing of 1956 crop potatoes. Essential features of the program provide that only good quality potatoes will be supplied to commercial markets and payment will be made for diversion of the remainder to starch, feed and flour. Payment for diversion will be at the rate of 50 cents per hundredweight until December 31, 1956; 40 cents, through March 31, 1957, and 30 cents until termination of the program but not later than June 30, 1957. Payment will be made only for diverted potatoes which are of U. S. No. 2 or better quality with a minimum diameter of 2 inches or in cases of long varieties a minimum diameter of 2 inches or minimum weight of 4 ounces. This schedule of payments is the same as that in effect last year. The program will be locally administered through the state and county agricultural stabilization and conservation committees.

Tapioca Flour—Trading in Brazilian flour continued quiet for shipment due to prevailing high prices. Offers for shipment were scanty and nominal around 10 1/2c. per pound, carlots, exdock. Deliveries of Siamese flour continued active against recently placed contracts. Medium grades ranged from 5 1/2c. to 5.85c. per pound, carlots, exdock, depending upon quality.

Tanning Materials

Leather production in July was lower than in June, according to Tanners Council. Output of cattle hide and kip leathers in July was estimated at 1,731,000 hides, against 2,075,000 in June; calf and whole kip skins, 496,000 against 644,000; goat and kid skins, 1,797,000 against 2,061,000 and sheep and lamb skins, 1,777,000 against 2,109,000.

Chestnut extract—Buying interest was reported fair and confined to nearby shipment. Primary market was unchanged and steady. Solid extract guaranteed 60 percent was quoted at 9 1/8c. per pound, carlots, exdock, plus duty, prompt shipment and powdered, 70 percent, 10⅝c., same basis.

Cutch—Offers for shipment were light as production was reported sold ahead. Shipments were maintained at 8 1/2c. per pound, carlots, exdock, plus duty.

Quebracho Extract—Moderate trading continued for nearby shipment. Solid ordinary guaranteed 63 percent tannin was quoted at 11 21/32c. per pound, exdock, plus duty and clarified 64 percent at 12 23/64c., same basis.

Valonia—Recent price advance for cups and beards was reflected in extract last week and shipments were raised to 9 1/2c. per pound, carlots, exdock, dutly paid Cups were steady at $61 to $62 jer ton carlots, exdock and beards, $81 to $82, same basis

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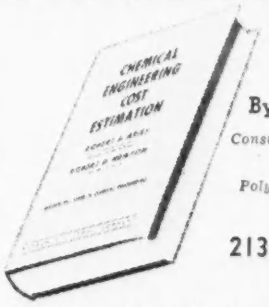

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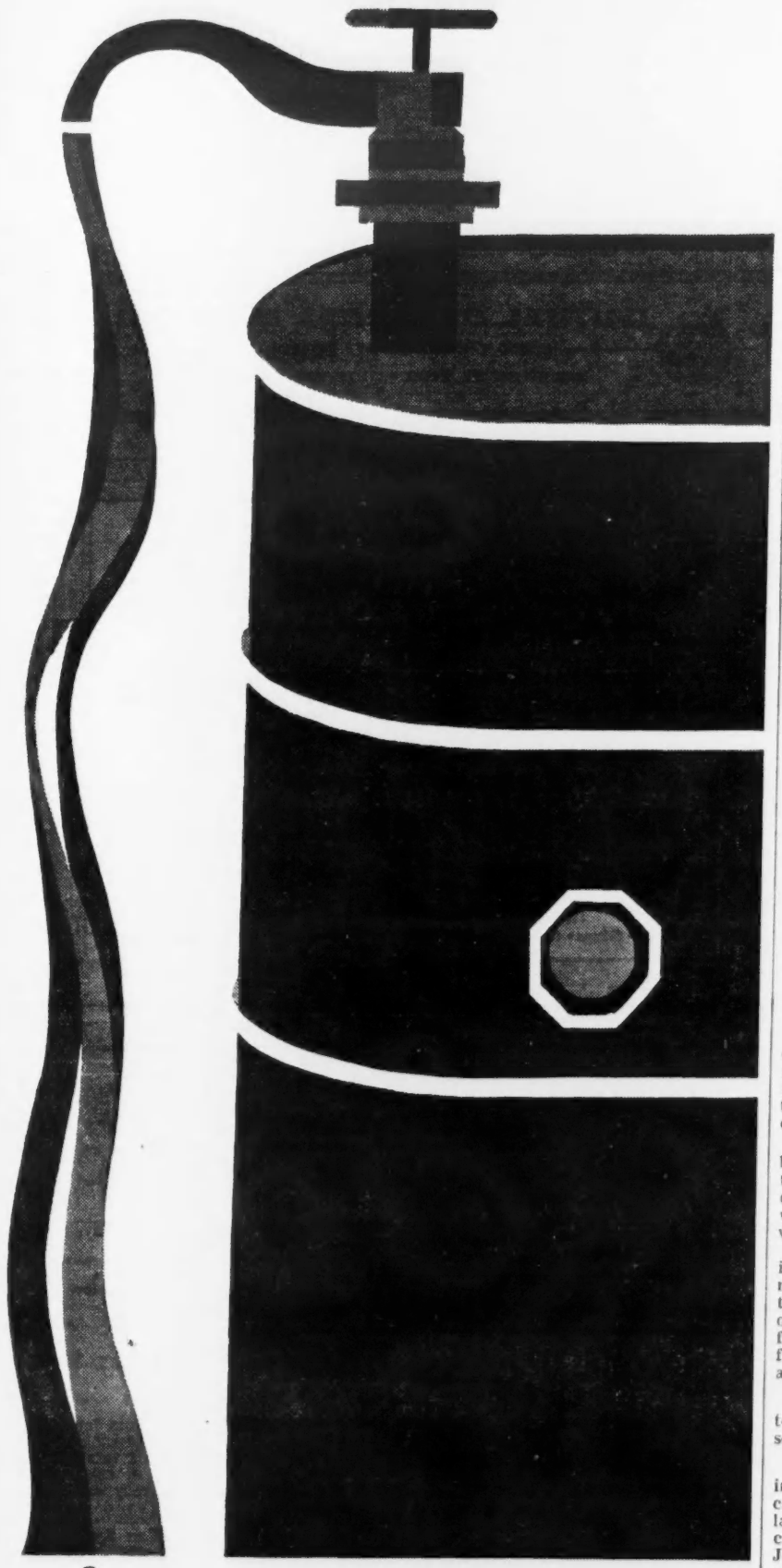

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Coal Chemicals

Since the price section of OPD is dated Friday as of press time, whereas the issue is dated Monday, the price advances noted below will not appear in the price section until the next issue. However, below are the price changes on intermediates becoming effective today. These will be shown in the regular market box and will affect the market index in the October 8 issue.

Price advances made on liquids involve a 1 cent per pound higher drum differential over tankcars, than former schedules, in a move made to partially offset the higher cost of steel drums. Solid intermediates which advanced in price were advanced uniformly across the board for all quantities.

The American Iron and Steel Institute estimated that steel production in the week ended September 30 would amount to 100.2 percent of theoretical capacity, equivalent to 2,466,000 tons of steel. The figure was compared to output of 2,452,000 tons of steel in the week previous, 2,389,000 tons in the comparable week in August and 2,341,000 tons in the corresponding week a year ago.

Price Trends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
114.89	114.89	114.89	144.77

For Current Prices see Page 9

Basic Products

Benzol—Price patterns currently in effect were expected to hold firm for the balance of the year. Considerable interest was seen in the consumption and supply picture. At present the benzol market was described by both coaltar and petroleum producers being in relatively close balance.

There were divergent views as to the benzol supply picture for the balance of the year and in early 1957. Some producers seemed to feel that the market would develop a tight supply situation, while others were not inclined to think so.

With some 60,000,000 gallons a year being imported, domestic production running at peak levels from the steel industry, and the petroleum industry turning out substantial volume, most observers felt that the supply picture would be comfortable for the months immediately ahead.

Coaltar Pitch—Contract prices effective today are $4 per ton higher than previous schedules.

Cresylic Acid—Domestic acid was moving well, but the demand had not as yet caught up with levels at which it moved last Spring. There was a substantial decline in consumption during May and June by the tricresyl phosphate producers, and in the meantime they have picked up on their output volume, but have not as yet gotten back to what might be considered as normal.

It was expected that Fall months will see a notable improvement. Demand for the disinfectant grades was described as steady and moderate. There were no price changes expected to develop for the balance of the year. Other industrial consumption was moderate to good and expected to improve. Supplies were quite adequate. There was no great pressure on any grade.

Phenol—Natural phenols were in good supply, and while moving well, were not under any sort of pressure. Synthetic phenol was in good demand but September orders were not running as heavy as they had been expected to do. However, the outlook for October showed substantially greater buying interest, and the months immediately ahead were felt likely to be quite good.

Toluol—The toluol picture as of last week was not good. In so far as excess stocks were concerned, the picture on the petroleum producing side of the industry was one in which there was not too much physical volume to be disposed of because it had found its way into the current high octane gasoline race.

Material moving into this octane usage was not at market prices however, and the feeling was rather general that the value of toluol for this purpose was currently around 25c. to 26c. per gallon, as against the chemical market levels of 33c. to 35c. However, when petroleum source toluol is diverted into gasoline, it is only fair to point out that it is not the regular toluol of commerce, but a more crude lower cost material containing other aromatics that is allowed to run into gasoline. The petroleum industry, because of this diversion to gasoline is not loaded with toluol, and is buying toluol for the purpose, where it can be had at a price which the end-use can pay.

The coaltar industry, by and large, has excessive toluol on hand which they are unwilling to dump on the market or to let go at prices much below the market for non-chemical purposes, but are getting rid of some stocks in this direction, and moving material into the export market.

October 1 Price Advances

Acetanilide, tech., 1½c. per lb.
Acid, anthranilic, 5c. per lb.
Cleve's, mixed, 26c. per lb.
Neville and Winther's, 10c. per lb.
Peri, dry, 17c. per lb.
paste, 17c. per lb.
Picric, tech., 9c. per lb.
Sulfanilic, 2c. per lb.
o-Toluidine, -m-sulfonic, 6c. per lb.
p-Aminoacetanalide, 14c. per lb.
Aniline, 1c. per lb.
Salt, 2c. per lb.
Benzidine hydrochloride, 16c. per lb.
sulfate, 16c. per lb.
2,6- Di-tert-butyl-p-cresol, tech., 9c. per lb.
N,N-Diethylaniline, 5c. per lb.
N,N-Dimethylaniline, 1½c. per lb.
Diphenylamine, 2c. per lb.
N-Ethylaniline, 5c. per lb.
Nitrobenzene, 1c. per lb.
Phthalic anhydride, 1c. per lb.
Pitch, coaltar, $4 per ton.

Intermediates

Acetanilide—New prices were in effect today on the technical grade. Carload flakes in bags were quoted at 30½ cents per pound, and less than carlot ton quanties at 31½ cents. Less ton quantities were quoted at 34½ cents.

p-Aminoacetanilide—This item today moved from its former schedule of $1.43

Cokeoven Output: July

Following are cokeoven production statistics comparing July 1956 and the same month in 1955 as reported by the Bureau of Mines. Only cokeoven output is represented. (Creosote content of creosote-coaltar solutions was not calculated prior to January 1956.)

	July 1956	*July* 1955	*First Seven Months* 1956
Benzol (excluding motor grade)....gals.	3,416,601	13,394,000	98,422,206
Creosote oil:—			
Creosote-coal tar solution....gals.	78,056	280,900	2,055,744
Content in solution....gals.	75,296	.....	1,741,754
100 percent straight distillate....gals.	303,346	1,681,200	12,003,943
Total 100 percent creosote....gals.	456,692	.....	13,745,707
Crude coaltar ....gals.	23,364,009	68,445,160	469,903,547
Naphthalene, crude:—			
Solidifying under 74° C....lbs.	520,009	2,464,600	20,590,665
At 74° C and under 76° C....lbs.	.....	541,600	3,149,905
At 76° C and under 79° C....lbs.	2,944,436	9,873,900	57,664,028
Total ....lbs.	3,464,445	12,880,100	81,404,598
Solvent, naphtha, refined....gals.	3,277	14,000	90,168
Toluol, 1° and 2° grades only....gals.	879,315	3,043,400	21,106,023
Xylol ....gals.	292,743	883,100	6,037,280

Coal Chemicals

per pound to the new price level of $1.57 per pound.

Aniline—Under the new price schedules effective today, aniline in tankcars will be priced at 21 cents per pound and tankwagons at 21½ cents. Drum carlots will be listed at 22 cents and less than carlot drum quantities at 23 cents per pound.

Aniline salt under the new price schedule as of today, will be priced at 33 cents per pound in carloads or truckloads, and at 35 cents in smaller quantities.

Anthranilic Acid—Prices were advanced 5 cents per pound today, bringing the new price schedule to $1.15 for 99 percent material in 150 pound drum quantities.

2,6-Di-tert-butyl-p-cresol — Prices in effect today on the technical grade were $1 per pound in carlot quantities, and $1.04 in less than carlot drum quantities. The tankcar price was 95c. per pound under todays new schedule.

N,N-Diethylaniline — Price patterns effective today list tankcars at 55c. per pound, drum carlots at 57c., and less than drum carlot quantities at 58c.

N,N-Dimethylaniline — Today's new price on tankcars was 30c. per pound, while carlot drum quantities were listed at 32c., and less than carlots drum quantities at 33c.

Diphenylamine — The tankcar price under new schedules effective today was 30c. per pound. On the flake, in bags, carlots or truckloads were quoted at 33c. per pound, and less than truckloads at 35c.

N-Ethylaniline — Under prices which become effective today, tankcars were quoted at 55c. per gallon, drum carlots at 57c., and less than drum carlot quantities at 58c. per pound.

Nevile and Winther's Acid—The new price at which this acid is quoted today is $1.30 per pound, an upward adjustment of 10 cents.

Nitrobenzene—Prices effective today list tankcars at 12 cents per pound, carlot drum quantities at 14 cents, and less than carlot drums at 15 cents per pound.

Peri Acid—New price schedules in effect today list the dry acid at $1.35 per pound, and the paste at $1.30.

Phthalic Anhydride—Last week this item was undergoing an artificial boom, with buyers rushing to take on as much inventory as they could get before the price advances 1 cent per pound as of today. Today's price schedule lists tankcars at 20½c., per pound, bag carlots at 21c. and less than carlot bag quantities at 22c.

From today on, there was expected to be a slump in buying activity, just as artificial as the September boom. Orders were expected to be slow in October until the abnormally heavy consumer inventory is consumed to a level more nearly normal. Meanwhile, actual rate of consumption of phthalic anhydride moved up gradually, but not spectacularly, as the fourth quarter pick-up in business got rolling. Alkyd resin demand for industrial finishes for the automotive and other hard goods industries was on the increase, and plasticizers were going well, volume-wise, even though prices were a bit demoralized due to competitive influences.

Picric Acid—Under new price schedules effective today, the NF acid is priced at 85c. per pound, and the technical grade at 44c.

Sulfanilic Acid—New price schedules as of today listed carlot quantities at 21c. per pound, and less than carlots at 23c.

o-Toluidine Sulfonic Acid — New prices effective today list this item at 70c. per pound, up 6c. per pound over former schedules.

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending September 30 was as follows:—

Ammonia liquor	lbs.	959,871
Ammonium sulfate	lbs.	40,871,952
Benzol	gals.	3,653,704
Coaltar	gals.	17,958,888
Creosote oil	gals.	696,681
Naphthalene, crude	lbs.	3,885,931
Pyridine, refined	lbs.	13,937
Toluol	gals.	805,053
Xylol	gals.	232,227

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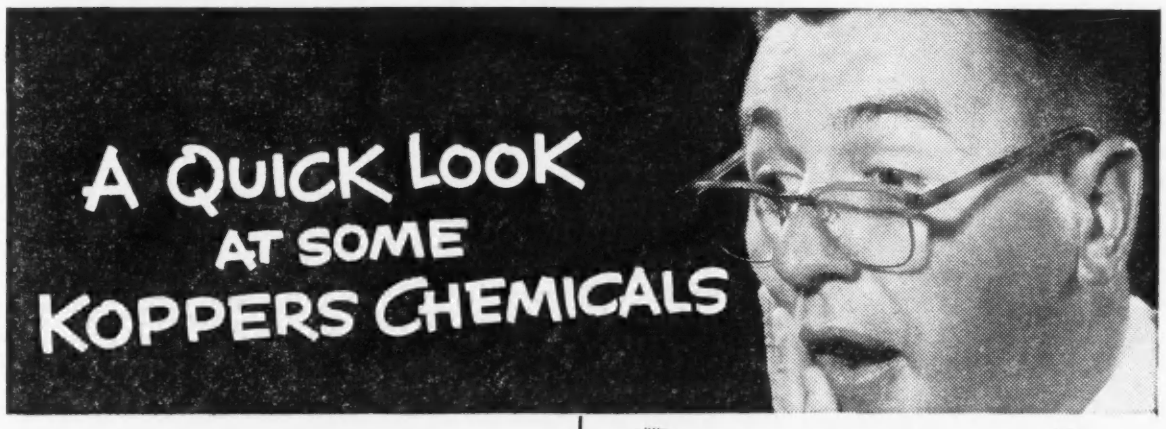

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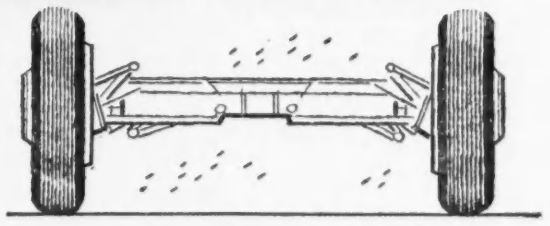

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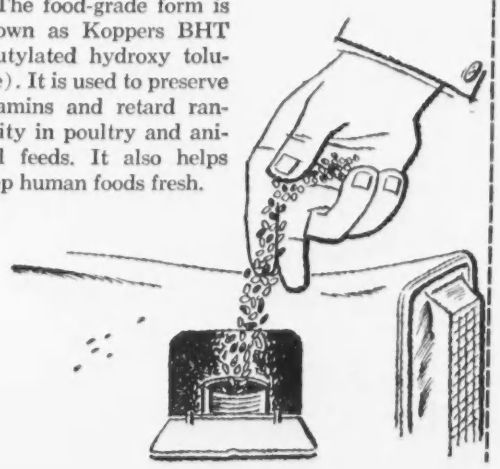

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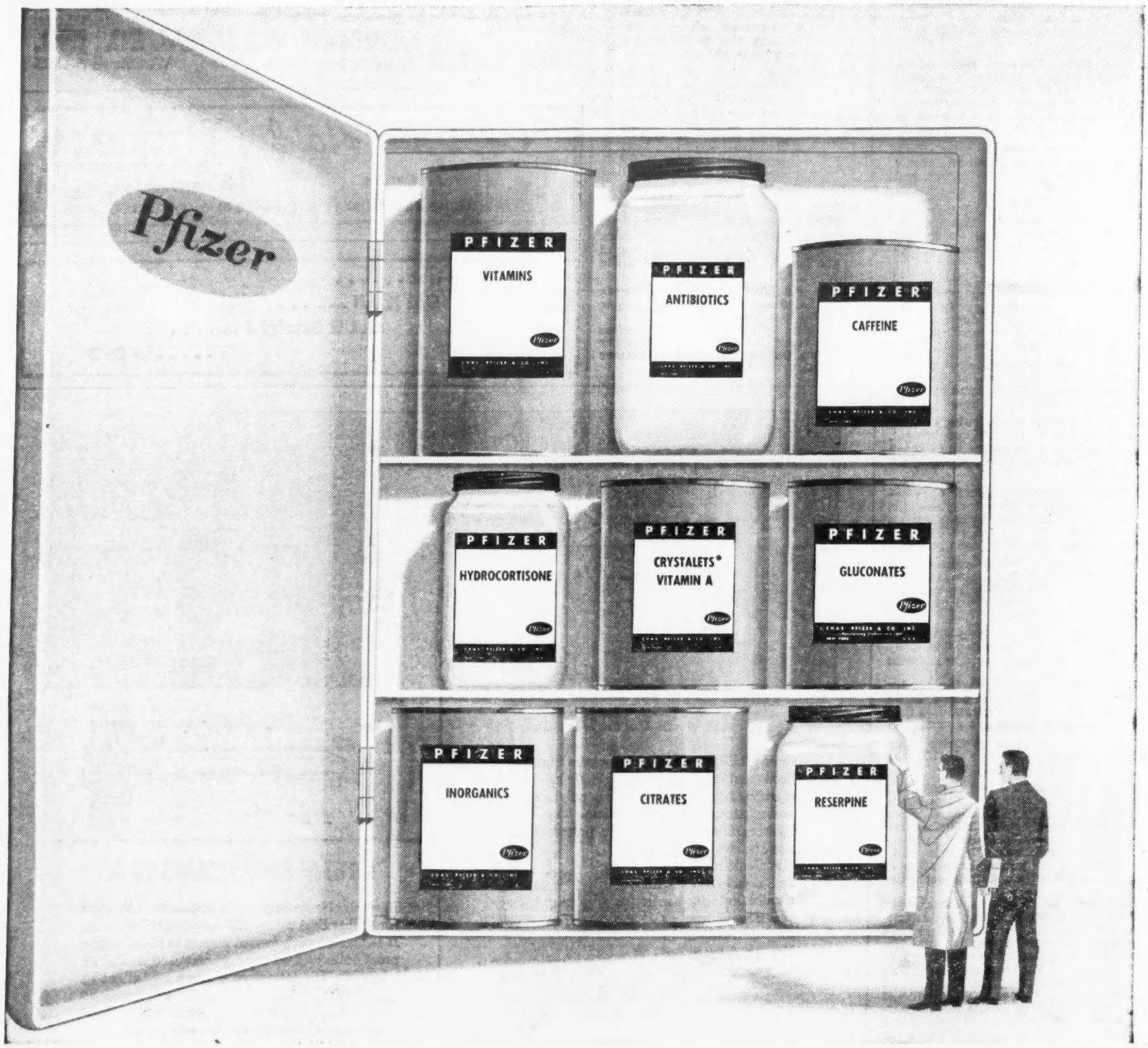

medicine cabinet for manufacturers

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Drugs, Fine Chemicals

Butyl stearate was scheduled for a price increase of ½ cent per pound effective October 1. As announced last week, other price changes to take effect on that date will include the tartrates, picric acid NF, and lanolin. The normal seasonal increase in vitamin sales had begun to make itself felt and producers were looking forward to even stronger interest in the weeks to come. Ascorbic acid was moving in increased business volume as was thiamin mononitrate. Normal buying levels for vitamins were expected to be reached by early November.

Aspirin and phenaticin demand continued to increase from manufacturers of cold preparations and general analgesics. Caffeine, although seasonally losing ground in the beverage trade, picked up additional strength in the pharmaceutical field.

Sulfa drugs and antibiotics were being handled in increased amounts and business was expected to be improved over last year. The export of antibiotics did not appear to hurt the foreign market for sulfa drugs as the latter was finding new uses through multiple therapy.

Buyers were becoming aware of the fact that a good many of the most commercially important botanicals were in short supply and would become even more scarce in the closing months of the year. Trading was active but at a moderate pace.

Price Trends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
65.86	65.86	65.84	66.45

For Current Prices see Page 9

October 1 Price Advances

Acid, Picric, NF, 25c. per lb.
Tartaric, 2c. per lb.
Butyl stearate, ½c. per lb.
Cream of tartar, 2c. per lb.
Lanolin, 1c. per lb.
Rochelle Salt, 2c. per lb.
Tartar emetic, 4c. per lb.

Acetylsalicylic Acid—Aspirin was in the midst of a seasonal upswing which major producers felt would be continued in the weeks ahead. Prices remained unchanged and it was reported that they would probably continue in effect over the remaining months of this quarter. The Tariff Commission reported 1,271,085 pounds of aspirin produced in July while 1,730,627 pounds were turned out during the month of June.

Ascorbic Acid—Vitamin C was moving exceptionally well at established price levels. Demand was strong and expected to become even more so in the coming weeks. Cheaper material was still being imported from Japan and several European countries, but it appeared to have little or no effect on the market for domestic ascorbic.

The slow season, just past, was reflected in figures released by the Tariff Commission which reported production of ascorbic acid and salts in July at 179,470 pounds as against 235,427 pounds in June.

Barbituric Acid—The market was quiet and demands were steady at a moderate volume with no change anticipated. Tariff Commission figures reported 31,000 pounds of phenobarbital and barbituric acid derivatives produced in July.

Barium Sulfate—The market was quiet on X-ray grade. Drum quantities were quoted at 15 cents per pound. Demand was steady at a moderate level and no price change was anticipated.

Betaines — Prices were steady and betaines found a good market. Anhydrous material in 25 pound lots selling at $4.20 per pound, 100 pound lots $3.75 per pound and 1,000 pound lots, annual contract, $3.35 per pound. The monohydrate in 25 pound lots was priced at $3.65 per pound, 100 pound lots $3.25 and 1,000 pound lots, annual contract, $2.90. The hydrochloride, 25 pound lots, $1.85 per pound, 100 pound lots $1.75 and 1,000 pound lots, annual contract, $1.65. All of the above prices were quoted on a freight allowed basis.

Bismuth Salts—Trading in bismuth salts continued quiet and would probably remain so for the weeks immediately ahead. Prices were unchanged and the chloride was quoted at $5.11 per pound, the crystalline nitrate at $2.10 and the subnitrate, NF, was priced at $2.65 per pound.

Butyl Stearate—Prices on this item were scheduled to be advanced ½c. per pound effective October 1. Carlots will be quoted at 25½c. per pound and less carlots at 26½c.

Caffeine—Sales to the beverage trade were off but increased demand from pharmaceutical makers formed a compensating factor. Demand was moderate and prices were unchanged. Considerable imported material was moving at prices under the domestic product. Domestic anhydrous caffeine in hundred pound lots or more was priced at $3 per pound while hydrous caffeine, same quantity, was quoted at $2.80.

Citric Acid — The market was steady and demands were moderate to good, although some producers felt there had been a seasonal let-up in orders placed by the beverage trade. It was believed that manufacturers would continue to find new uses for an established item of this type while retaining old ones. Supplies were adequate to meet all calls.

Codliver Oil—Trading continued at seasonal levels with some producers experiencing a moderate increase in demand which was attributed in part to a return to codliver oil as a natural source of vitamins A and D. Supplies were adequate to meet all calls and current prices of $1.45 in drum quantities were unchanged. Less than drum quantities went for $1.55 per gallon.

Glutamates—Good supplies were on hand to meet increased demand. Pharmaceutical grade l-glutamic acid and l-glutamic acid hydrochloride were priced at $2 per pound in 100 pound lots. l-Glutamine was reported at 65 cents per gram. Sodium glutmate, monobasic, in carlots, $1.20 per pound. Monopotassium glutamate, of the pharmaceutical grade, sold in 25 pound lots at $3.50 per pound, 100 pound lots $3.25 and 1,000 pound lots, contract basis, $3.05. All prices were quoted on a freight allowed basis.

Phenylacetamide—Drums of 125 pounds were priced at $1.10 per pound. Demand for this item was at a low ebb due to the fact that continued research by manufacturers has shown other materials to yield better results as penicillin precursors, it was said.

Pyridoxine Hydrochloride — Producers felt they had experienced the normal seasonal increase in demand, but the market for B_6 was little changed from what it had been. Price was reported at $375 per kilo and supplies were quite adequate. Tariff Commission figures noted that pyridoxine production for July was 13,545 pounds in comparison with the 24,354 pounds produced in June.

Riboflavin—As was the case with vitamins in general, demands for B_2 were strong as consumers began to stock vitamin preparations in quantity. Multi-vitamin preparations, in which riboflavin figured prominently, were doing well. Prices remained unchanged as USP material was reported at $65 per kilo, readily soluble $130 per kilo and 5′—sodium phosphated grade at $125.

Sodium Alginate—Demands for NF sodium alginate were steady at a low volume. Prices varied as to quantity and seller, with ton lots being quoted at 87 cents per pound and smaller quantities often as high as $1.30.

Streptomycin—Production this year was running around 20 percent over the corresponding period of last year, in line with greater use and export of antibiotics generally. Prices were unchanged. A substantial part of the increased output, or responsibility for the growth, lay in non-medical use patterns. The same thing generally applied to dihydrostreptomycin, except that the dihydro product is more widely used, and this year output was running at around 27 percent ahead of last year.

Figures supplied by the Tariff Commission showed that 6,793,280 grams of streptomycin were produced in July, compared with 5,741,518 grams in June. Pro-

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Drugs, Fine Chemicals

duction of dihydro in July amounted to 17,586,482 grams, while in June manufacturers turned out 19,447,344 grams.

Sulfa Drugs — These pharmaceuticals did not suffer domestically at the hands of the antibiotics. Through the first five months of this year sulfa drugs showed a 37 percent gain over output during the comparable period of last year. This in the face of something like a 20 percent drop in exports, in a case where exports of antibiotics did appear to hurt the export market on the sulfas. The output gain was said to be a reflection of revived interest in sulfa medication, wherein multiple sulfa salts are used instead of individual ones, to a claimed improved effect.

The Tariff Commission reported production of 312,267 pounds of sulfa drugs (bulk material only) in July as against 298,785 pounds in June.

Thiamin—The fall pick-up in vitamins had begun and demand for B_1 mononitrate was especially good. Price levels on both hydrochloride and mononitrate were unchanged and the market was strong and expected to gain in the weeks ahead. Production of thiamin derivatives in July, according to the Tariff Commission, amounted to 13,541 pounds as compared with 24,354 pounds in June.

Botanicals

Trading in botanicals was active, but not spectacularly so, as drug buyers who have been slow in their pharmaceutical purchases over the summer lull, and do not normally get active until October and November tended to carry this thinking over into their botanical buying. With many, the attitude was that if they did not need it now, they were in no hurry to buy it.

Some purchasers, however, were beginning to realize that in view of this year's short botanical crop gatherings, if they want material in early next year, they had better buy it now or there may very well not be any when they do want it. There are certain botanicals of quite significant commercial importance which are short right now. Among these are cascara bark, senega root, ladyslipper, and goldenseal. Others were sure to be tight later on in the year, and stocks may be depleted by January and February.

Buchu Leaves—Current price levels were firm at $1.30 per pound on spot. Demand at present was moderate and supplies for the present were adequate.

Cantharides—Chinese was currently quoted at $2 per pound, with powdered Chinese at $2.25. Russian was listed at $4 per pound and the powdered Russian at $4.35 per pound.

Cascara Sagrada Bark—This item was right now in short supply, and the situation had only one way in which to move, and that was in the direction of greater scarcity. There was simply an inadequate quantity gathered to go around. Prices at the current level of 33c. per pound were certain to rise in the weeks ahead, it was felt in most quarters.

Digitalis Leaves—USP quality material was firmly priced last week at $1.20 per pound. Supplies were currently adequate to meet the moderate demand.

Ipecac Root—Current price patterns were at the level of $7.50 for the whole and $7.85 per pound for the powdered. The market at present was realtively quiet.

Cleveland Chemical Unit To Hold Meeting Today

The Chemical Salesmen of Cleveland, Ohio, will open their 1956 season with a luncheon meeting at Manger hotel in that city today.

Newly elected officers are:—President, Richard L. Huber, district manager for Hercules Powder Company; vice-president, John H. Sanders, sales representative for Eastman Chemical Products; secretary, Ed. A. McAdam, district sales manager for Monsanto Chemical Company, and treasurer, Charles R. Daving, sales representative for Hooker Electrochemical Company.

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—Continued from page 3

other two are a subcommittee on inorganic chemicals with Edward T. Dunn, of Allied Chemical & Dye Corporation, New York, as chairman, and a subcommittee on organic chemicals, with Robert H. Moyer of duPont, as head.

The committee gave two objectives:—(1) How may the statistical reporting program of the Census bureau and the Tariff Commission, as they affect the chemical industry, be revised to lessen the paperwork and expense on the industry, and (2) how may the programs be improved to be more useful to the chemical industry.

The biggest task concerns the synthetic organic chemicals report of the Tariff Commission. The subcommittee that will review this report has set up twelve task groups to go over the report and the reporting forms in detail. The committee will seek to make the report reflect the needs of the industry more accurately, and at the same time, make it more timely by speeding its issuance.

The other subcommittee will conduct a similar survey and revision of the statistical reports and forms of the Census bureau. The work of both committees will include a critical review of nomenclature, classification of chemicals, simplification of forms, value of the type of data required, etc.

Following Hoover Commission

The work of the committees will largely be a continuation and expansion of the investigations conducted two years ago by the Hoover Commission. The commission through its twenty-nine working committees, including a committee on chemicals, succeeded in greatly reducing some of the paperwork imposed on industry by the government, but was unable to complete its task.

When the commission expired, it left a a list of 168 paperwork targets for further study, where savings in money to industry and government could be made. Many of these have to do with reports of direct interest to the chemical industry.

While it existed, the commission was concerned only with reducing the paperwork burden on industry. The chemical committee just established will be concerned not only with reducing the paperwork, but also improving and possibly expanding some of the statistical programs to provide better service to the industry.

Titanium Facility

—Continued from page 4

than a mile from USI's existing sodium and chlorine plant.

Both the titanium plant and USI's 1.5 million pound-per-year zirconium plant, announced a short time ago, will be located inside a 175,000 square foot building recently purchased from Lake City Malleable Company. The building, built twelve years ago as a production-line foundry, will have ample space for both plants. By utilization of the existing building, USI expects to cut six months to one year from its construction timetable.

Metallic sodium will be used in the new plant to reduce titanium tetrachloride to titanium sponge by a new process developed in USI's research laboratories. The new process will, according to Dr. Robert E. Hulse, vice-president in charge of chemical activities, produce a higher purity titanium sponge than the conventional magnesium reduction process, at a cost lower than that of any existing commercial technic.

Sodium from Nearby Plant

The sodium used in the process will be supplied from USI's nearby plant, while the titanium tetrachloride will be produced by Stauffer Chemical Company in a new plant it plans to build nearby. Chlorine from USI's sodium-chlorine plant will be used by Stauffer for this process.

Engineers and constructors of USI's new titanium sponge plant will be the Bechtel Corporation, San Francisco, Calif. Engineering and design work on the plant is already under way and construction is scheduled to start as soon as the foundry equipment can be removed from the building.

Construction of a 10,000 square foot control laboratory is already under way. Bechtel has a considerable amount of experience in the metals field, having designed the Bureau of Mines' zirconium plant at Albany, Ore., which produced the first commerical quantities of the pure metal for nuclear use.

GAF Stock Split

—Continued from page 5

trary to the requirements of the law that the Alien Property Office not change the status of vested property while litigation is pending.

The order forbids the Alien Property Office to vote Interhandel's vested stock at a General Aniline special stockholders meeting called for October 4. This means that the proposed stock split and new issue could not be approved at the meeting for lack of a majority vote.

The court will hold a hearing for all parties to the dispute on October 5, to determine whether a further preliminary injunction should be granted.

Phila. Chemists to Hold Outing

The Chemical Club of Philadelphia will hold a golf outing at North Hills Country Club, Orlanda, Pa., October 2.

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Tall Oil Rosin, Fatty Acid Production Told by Crosby

Crosby Chemicals, Inc., Picayune, Miss., has announced the large scale-manufacture of a tall oil rosin and fatty acid utilizing a revolutionary process.

The color is lighter than x standard on the USDA scale. Softening point and acid number are high. In addition, sulfur has been removed and the characteristic odor usually associated with tall oil rosin is absent. It has also been noted in plant operations that the rosin tends to lighten rather than darken under an inert blanket in the manufacture of derivatives, it was said.

The unbleached fatty acid, designated by Crosby as "Crofatol Super X" has a maximum color of 3 on the Gardner 33 scale. Rosin acids and unsaponifiables are lower than any previously produced with a correspondingly high acid number. Heat stability, it was said, is superior to other tall oil fatty acids.

Chemicals Promised

—Continued from page 7

pointed out, but this is "the answer to only a single phase of practical weed control, such as on industrial sites and railroad and highway rights-of-way." He continued:

"Killing the seeds of specific plants without injury to desirable plants will answer the requirements of a much larger and more important phase of practical weed control—agriculture.

"The great mass of seed-bearing plants called angiosperms are divided into two main classes: grasses and broad-leaf plants.

"The advent of 2,4-D (2,4-dichlorophenoxy acetic acid) in 1942 ushered in the major step in chemical weed control. The phenoxyacetic acid type of chemical proved very toxic to many broad-leaf plants at very low dosage levels, that is, at economically practical rates, while a number of desirable grass plants survived almost uninjured. Specificity with chemical weed control had arrived.

"This degree of specificity eventually accentuated a disadvantage, namely, the inability to control annual weedy grasses effectively in desirable crops.

Extensive Studies in Last Five Years

"Within the last five years two types of chemicals have been extensively studied at Monsanto because of their outstanding toxicity to germinating grass seeds.

"These two groups of chemicals are: N-substituted thioesters of dithiocarbamic acid, and N-substituted alpha-chloroacetimides. Modifications of these two types of chemicals were synthesized and evaluated as herbicides for germinating grass seeds."

Dr. Hamm described extensive tests of the herbicidal effects of these chemicals on wild oats, rye grass and brome grass.

Surveying the results of the Monsanto research, Dr. Hamm pointed out that there are definite relationships between the molecular architecture of the chemical agent and its specific herbicidal activity. He indicated that this information would be useful in tailor-making a variety of weed-killers. Regarding the two classes of chemicals which formed the basis for this study, he stated:

"There is an outstanding similarity in the ability of both classes of chemicals to inhibit effectively the germination of a wide variety of grass seeds while effecting a marked degree of tolerance for the seeds of many broad-leaf crops and corn."

Data Offered

A new **technical bulletin on chlorosulfonic acid** containing a bibliography of more than 130 chemical abstract references has been published by Monsanto Chemical Company. The bulletin, available from Monsanto's inorganic chemicals division at St. Louis 1, Mo., describes physical and chemical properties of the acid and also covers analysis, typical reactions, handling and corrosion characteristics, toxicity and safety data.

"A Guide to Sources and Applications of Molybdenum Chemicals" (Ch-27), a new four-page bulletin, is available on request to Climax Molybdenum Company, Department L, 500 Fifth avenue, New York 36.

"Koppers Niacin" is the title of a new four-page folder giving a general description of the application of niacin for human, plant and animal nutrition and for the formulation of B-complex vitamin tablets and capsuls. Copies of the bulletin (T-102-56) may be obtained by writing to the tar products division of Koppers Company, 1450 Koppers Building, Pittsburgh, 19, Pa.

Complete details on two new defoamers—Witco defoamer 2A and defoamer 3—are contained in a bulletin (H-7), available on letter head request to Witco Chemical Company, 122 East 42nd street, New York.

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- BENZODIOXANE
- BENZOFURAN
- BENZOPHENONE CHLORIDE
- BENZOPHENOXIME
- BENZOPINACOL
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- BENZOYLARGININE
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ARGOL—214 bgs, Tartaric Raw Materials, Marseille
328 bgs, Buenos Aires
ARROWROOT—6,000 bgs, Morningstar Nicol, Kingstown
ASBESTOS FIBER—2,000 bgs, Johns Manville Corp, Beira
BARBASCO ROOT—150 bls, National City Bank, Callao
BARIUM SULFIDE—1 cs, Fischer Scientific Co, Bremen
BARYTES—1,594 bgs, Rio de Janiero
BAY OIL—1 dm, Lo Curto & Funk, Dominica
8 dms, Norda Essential Oil & Chemical Co, Dominica
2 dms, Magnus Mebee & Reynard, Dominica
BEEF EXTRACT—75 cs, Tupman Thurlow, Santos
21 cs, Tupman Thurlow, Buenos Aires
BEESWAX—40 bgs, Machado & Co, Ciudad Trujillo
50 bgs, Marcel Calvet, Ciudad Trujillo
29 bgs, R B Wilson Co, Salvador
25 bgs, Porcella Vicini, Ciudad Trujillo
15 bgs, Lenape Trading Co, Jacmel
89 blks, Empire Trust Co, Djibouti
86 bgs, Douala
30 bgs, Ciudad Trujillo
31 bgs, Port Au Prince
61 bgs, Tampico
BERGAMOT OIL—8 cs, Naples
BISMUTH—30 cs, Cerro de Pasco Corp, Callao
BUTTONLAC—75 bgs, Gillespie Rogers Pyatt, Calcutta
50 bgs, Mac Lac Co, Calcutta
CADMIUM—13 cs, Cerro de Pasco Corp, Callao
CAMPHOR POWDER, SYNTHETIC—90 cs, P H Petry, London
CANDELILLA WAX—362 bgs, Tampico
CARAWAY OIL—11 dms, Rotterdam
SEED—150 bgs, Biddle Purchasing Co, Rotterdam
225 bgs, Levy & Levis Co, Rotterdam
150 bgs, Mincing Trading Corp, Rotterdam
100 bgs, P H Petry, Rotterdam
200 bgs, Louis Furth, Rotterdam
200 bgs, C M Van Sillevoldt, Rotterdam
900 bgs, Rotterdam
CARDAMOM SEED—8 cs, Wm E Martin, Puerto Barrios
CARNAUBA WAX—224 bgs, Bank of America, Rio de Janeiro
336 bgs, D Levin, Salvador
CASEIN—2,500 bgs, Overseas Merchants Corp, Hamburg
1,000 bgs, Tupman Thurlow, Buenos Aires
900 bgs, Irving Trust Co, Buenos Aires
1,400 bgs, Buenos Aires
CASSIA—330 bls, P H Petry, Rotterdam
1,435 bls, Borneo Sumatra Trading Co, Rotterdam
363 bls, J F Frank, Rotterdam
1,710 pkgs, Rotterdam
CASTOR BEANS—586 bgs, Chase Manhattan Bank, Jacmel
1,025 bgs, Spencer Kellogg, Port de Paix
OIL—502 tons, Spencer Kellogg, Lobito
314 tons, Recife
CELERY SEED—48 bgs, Wm E Martin, Marseille
CHLORINATED RUBBER—100 bgs, C M C Chemicals Inc, Liverpool
CITRONELLA OIL—25 dms, Lo Curto & Funk, Keelung
25 dms, Shulton Inc, Keelung
25 dms, Keelung
COALTAR—24 cs, E Fougera, London
DYES—17 dms, Hensel Bruckmann & Lorbacher, Rotterdam
16 dms, C A Haynes, Havre
10 dms, Orlex Chemical & Dye Corp, Rotterdam
4 dms, Natural Nydegger, Rotterdam
5 dms, Rotterdam
COCONUT OIL—913 tons, E F Drew & Co, Cebu
310 tons, Pacific Vegetable Oil Corp, Manila
375 tons, American Trust Co, Cebu
COD OIL—100 dms, Ottol Oil Co, Bergen
213 tons, Scandinavian Oil Co, Rotterdam
CODLIVER MEAL—880 bgs, Dyson Shipping Co, Reykjavik
OIL—310 dms, Arista Oil Products Co, Aalesund
75 dms, Peder Devold Oil Co, Aalesund
840 dms, Dyson Shipping Co, Reykjavik
150 dms, Arista Oil Products Co, Reykjavik
615 dms, Scandinavian Oil Co, Reykjavik
144 dms, Universal Transcontinental Co, Reykjavik
183 dms, Peder Devold Oil Co, Reykjavik
17 tons, Dyson Shipping Co, Reykjavik
CORANIL, BROWN—1 dm, Hensel Bruckmann & Lorbacher, Hamburg
CORN STARCH—900 bgs, Geismar & Co, Rotterdam
672 bgs, Rotterdam
COTTON LINTERS—120 bls, Buenos Aires
CREAM OF TARTAR—800 bgs, T M Duche & Sons, Barcelona
CRESYLIC ACID—903 dms, H A Gogarty, Liverpool
50 dms, D C Andrews, Glasgow
926 dms, H A Gogarty, London
29 tons, H A Gogarty, London
CUBE ROOT—213 bgs, Domestic Foreign Distributors, Callao
CUMIN SEED—158 bgs, Max Van Pels, Rotterdam
CUTTLEFISH BONE—280 cs, E E Bier & Co, Cadiz
205 cs, Hudson Shipping Co, Cadiz
137 cs, Guaranty Trust Co, Yokohama
100 cs, Cadiz
DAMMAR GUM—42 bgs, O G Innes Corp, Singapore
DEXTRIN—230 bgs, Beacon Freight Co, Rotterdam
900 bgs, Rotterdam
DIACETYL—4 cs, Dorf International, Rotterdam
DRY COLORS—120 bgs, Naftone Inc, Hamburg
EARTH COLORS—225 bgs, Naftone Inc, Bremen
ETHYLTHIOPHOSPHATE—2 cbys, Plant Products Co, Rotterdam
FISHLIVER OIL—2 dms, Wilbur Ellis Co, Yokohama
26 dms, Arista Oil Products Co, Yokohama
6 dms, J D Smith Interocean, Yokohama
5 dms, R S Reade, Yokohama
FISHMEAL—1,092 bgs, Pisco
FUEL OIL—183,679 bbls, Asiatic Petroleum Corp, Curacao
441,000 bbls, Esso Standard Oil Co, Aruba
96,281 bbls, Shell Caribbean Petroleum Co, San Lorenzo
69,315 bbls, Shell Caribbean Petroleum Co, Punta Cardon
168,000 bbls, Esso Export Corp, Aruba
111,857 bbls, Esso Export Corp, Caripito
137,221 bbls, Metropolitan Petroleum Corp, Curacao
104,661 bbls, Paragon Oil Co, Tampico
GALL, OX—2 bbls, Tupman Thurlow, Rio de Janeiro
5 dms, Merck & Co, Durban
GALLIC ACID—10 dms, Glasgow
GAMMA ACID—53 dms, Atlantic Chemical Corp, Genoa
GARNETLAC—50 bgs, Gillespie Rogers Pyatt, Calcutta
GELATIN—160 bgs, T M Duche & Sons, Havre
40 dms, J Leiner, London
GERANIUM OIL—5 cks, Roubechez Inc, Algiers
2 cks, A Verley & Co, Algiers
GERMANIUM OXIDE—35 cs, American Metal Co, Antwerp
GINGER—173 bgs, Fuerst Bros, Freetown
GLUE—60 bgs, Stein Hall & Co, Rotterdam
GLYCERINE—82 dms, R P Casado, Havana
197 tons, Calcutta
GYPSUM—10,326 tons, U S Gypsum Co, Hantsport
15,754 tons, National Gypsum Co, Halifax
3,348 tons, Allied Chemical & Dye Corp, Halifax
354 bgs, Whittaker Clark & Daniels, Liverpool
HAARLEM OIL—5 cs, Menger Manufacturing Co, Rotterdam
HOOFMEAL—623 bgs, International Packers Ltd, Montevideo
HYDROGEN PEROXIDE—142 dms, Hamburg
IRON BLUE—5 dms, Van Oppen & Co, Liverpool
OXIDE—224 bgs, Landers Segal Color Co, London
[illegible] F L Kraemer, London
JALAP ROOT—15 bgs, Vera Cruz
KOLA NUTS—300 bgs, D Steengrafe & Co, Kingston
100 bgs, Meer Corp, Kingston
PISCIS—2 cs, S B Penick & Co, Barranquilla
LAURIC ACID—429 bgs, I R Boody & Co, Copenhagen
LAVENDER FLOWERS—30 bgs, S B Penick & Co, Marseille
LEAVES—30 bgs, Meer Corp, Marseille
LEAD COLORS—32 dms, Wedeman & Godknecht, Rotterdam
LEMON OIL—60 cs, National City Bank, Naples
11 dms, National City Bank, Vera Cruz
LEMONGRASS OIL—25 dms, Puerto Barrios
LIME OIL—2 dms, Citrus & Allied Essential Oil Co, Santiago
1 dm, Norda Essential Oil & Chemical Co, Port Au Prince
LINDANE—10 dms, Hudson Shipping Co, Hamburg
LIVERMEAL—1,628 bgs, Wessel Duval & Co, Buenos Aires
556 bgs, Buenos Aires
LIVER POWDER—62 dms, Tec Chemical Corp, Montevideo
LISSAPOL—23 dms, Heemsoth Kerner, Liverpool
LITHOPONE—300 bgs, C J Osborn Co, Rotterdam
LOCUST BEAN GUM—551 bgs, Stein Hall & Co, Valencia
53 bgs, J L Quesada, Valencia
800 bgs, Morningstar Nicol, Piraeus
LOGWOOD EXTRACT—94 cks, American Dyewood Co, Kingston
LYCOPODIUM—12 cs, Meer Corp, Hamburg
MACE—5 cs, Knight Smith & Co, Kingston
13 cs, Mincing Trading Corp, London
7 cs, J W Pfyfe & Co, Rotterdam
24 cs, Kellys America Ltd, London
14 cs, Rotterdam
MARINE OIL COMPOUND—600 bgs, Chemical Bank, Oslo
MARJORAM LEAVES—106 bls, Louis Furth, Marseille
MENTHOL—20 cs, Consumers Import Co, Marseille
MERCURY—39 flks, L H Keller & Co, Tampico
150 btls, F H Lenway & Co, Coquimbo
1,375 flks, Cadiz
MINERAL WAX COMPOUND—2 kgs, Heidl's Inc, London
MOLASSES—350 tons, W R Grace & Co, Salaverry
MYRRH GUM—8 bgs, Meer Corp, Aden
NAPHTHOL—100 dms, Kaufman & Vinson, Genoa
8 dms, Hensel Bruckmann & Lorbacher, Hamburg
b-NAPHTHOL—454 bgs, Rotterdam
m-NITRO-p-TOLUIDINE—9 dms, A V Berner & Co, Liverpool
NUCLEIC ACID—1 dm, Havre
NUTMEG—26 bgs, Shippers Produce Corp, Rotterdam
40 bgs, R J Spitz, Rotterdam
70 bgs, Kellys America Ltd, Rotterdam
100 bgs, National City Bank, Rotterdam
140 bgs, Kellys America Ltd, London
14 bgs, Knight Smith & Co, Kingston
56 bgs, Shippers Produce Corp, London
42 bgs, Rotterdam
OCOTEA CYMBARUM OIL—227 dms, U S General Commodities Corp, Rio de Janiero
OLIBANUM GUM—77 bgs, Meer Corp, Aden
OLIVE OIL—102 dms, Hanover Bank, Malaga
PALMKERNEL OIL—58 dms, Rotterdam
499 tons, Matadi
PALO SANTO OIL—34 cs, Lo Curto & Funk, Buenos Aires
PATCHOULI OIL—10 cs, Kane Import Corp, Penang
5 dms, Roure-Dupont Inc, Tandjong Priok
PEATMOSS—2,122 bls, E J Lang, Hamburg
2,500 bls, Lewis Intern Co, Hamburg
1,000 bls, Bruco Peatmoss Corp, Hamburg
500 bls, National Distributors, Hamburg
2,800 bls, J E Bernard, Hamburg
1,500 bls, Ascot Peatmoss Corp, Bremen
1,500 bls, New Amsterdam Import Co, Bremen
1,500 bls, Trans Sphere Trading Co, Bremen
1,986 bls, Premier Peatmoss Corp, Bremen
2,050 bls, Gellco Inc, Bremen
1,100 bls, Marine Midland Trust Co, Bremen
1,238 bls, Bruco Peatmoss Corp, Bremen
1,000 bls, E J Lang, Bremen
500 bls, Lewis Intern Co, Bremen
500 bls, C Fafard, Hamburg
667 bls, E Dunwoody, Bremen
500 bls, National Distributors, Bremen
1,000 bls, New Amsterdam Import Co, Copenhagen
PECTIN—66 kgs, T M Duche & Sons, Copenhagen
PEPPER BLACK—240 bgs, Volkart Bros, Cochin
160 bgs, Irving Trust Co, Cochin
1,040 bgs, Borneo Sumatra Trading Co, Rotterdam
320 bgs, Cochin
RED—25 bgs, Van Loan & Co, Kingston
40 bgs, Van De Vries Trading Corp, Kingston
160 bgs, A G Dunn, Kingston
80 bgs, M J Golombeck, Kingston
480 bgs, Otto Gerdau, Kingston
100 bgs, Mincing Trading Corp, Kingston
WHITE—110 bgs, Internatio Rotterdam, Singapore
PEPPERMINT OIL—10 cs, James Haywood & Sons, Kobe
PETITGRAIN OIL—6 dms, A Verley & Co, Buenos Aires
PETROLEUM, CRUDE—210,929 bbls, Esso Standard Oil Co, Puerto La Cruz
120,000 bbls, Socony Mobil Oil Co, Puerto La Cruz
71,799 bbls, Gulf Oil Corp, Las Piedras
39,618 bbls, California Oil Co, Maracaibo
75,000 bbls, American Bitumulus & Asphalt Corp, Maracaibo
199,125 bbls, Phillips Petroleum Co, Puerto La Cruz
PIMENTOLEAF OIL—5 dms, Magnus Mabee & Reynard, Kingston
5 dms, W J Bush & Co, Kingston
POLLACKLIVER OIL—150 dms, National City Bank, Yokohama
140 dms, Arista Oil Products Co, Yokohama
50 dms, J D Smith Interocean, Yokohama
75 dms, R S Reade, Yokohama
POLYVINYYL ACETATE RESIN—44 cs, Colloids Inc, Kobe
POPPY SEED—50 bgs, C M Van Sillevoldt, Rotterdam
120 bgs, Louis Furth, Buenos Aires
215 bgs, Rotterdam
POTASSIUM FERRICYANIDE—50 cks, Atlantic Raw Materials, Hamburg
PERCHLORATE—100 dms, Duff Chemical Co, Gerlach
PYRETHRUM FLOWERS—126 bls, Fairfield Chemical Co, Matadi
QUEBRACHO EXTRACT—608 bgs, H Elkan & Co, Buenos Aires
541 bgs, Tan American Corp, Buenos Aires
537 bgs, River Plate Corp, Buenos Aires
2,147 bgs, Tanimex Corp, Buenos Aires
4,245 bgs, First National Boston, Buenos Aires
RAPE SEED—100 bgs, Foreign & Domestic Sales Corp, Rotterdam
150 bgs, Rotterdam
RAUWOLFIA ROOT—988 bgs, Ciba Pharmaceutical Products, Matadi
RED IRON OXIDE—1,600 bgs, Smith Chemical & Color Co, Malaga
RICE STARCH—334 bgs, American Key Products, Trieste
260 bgs, Aurora Manufacturing Co, Trieste
BOIS DE ROSE OIL—8 dms, Marine Midland Trust Co, Georgetown
11 dms, Dodge & Olcott, Callao
SAFFRON—2 cs, Galvanoni & Nevy Bros, Genoa
SALICYLIC ACID—20 dms, Manufactuers Trust Co, Rotterdam
SALVADOR BALSAM—4 dms, La Libertad
SANDALWOOD OIL—9 cs, Magnus Mabee & Reynard, Madras
9 cs, Van Ameringen Haebler, Madras
SAPONINE—10 cs, Karr Ellis, Liverpool
SEEDLAC—250 bgs, C H Timm, Calcutta
400 bgs, Win Zinsser & Co, Calcutta
100 bgs, Gillespie Rogers Pyatt, Calcutta
300 bgs, Calcutta
SENNA CONCENTRATE—7 cs, Louis Goldburt, London
SESAME SEED, HULLED—600 bgs, Chase Manhattan Bank, San Juan Del Sur
400 bgs, Louis Furth, Aleaxndria
SHARK OIL—86 dms, Ocean Leather Corp, Pampatar
SHELLAC—200 bgs, Gillespie Rogers Pyatt, Calcutta
150 bgs, C H Timm, Calcutta
150 bgs, Haeuser Shellac Co, Calcutta
250 bgs, Mac Lac Co, Calcutta
100 bgs, Mantrose Corp, Calcutta
1,183 bgs, Wm Zinsser & Co, Calcutta
100 bgs, Chase Manhattan Bank, Calcutta
19 bgs, Hamburg
SOAP BARK—519 bls, Duncan Fox & Co, Talcahuano
96 bls, Int Commodities Corp, Valparaiso
185 bls, S B Penick & Co, San Antonio
SODIUM BICHROMATE—100 dms, Ferro Metal & Chemical Corp, Durban
CYANIDE—553 dms, Chemical Manufacturing Co, Liverpool
GLUTAMATE, MONO—700 dms, Universal Sales Co, Yokohama
MONOCHLOROACETIC ACID—24 dms, Chemo Puro Manufacturing Co, Rotterdam
SILICOFLUORIDE—200 bgs, H Sundheimer, Hamburg
STANNIC CHLORIDE ANHYDROUS—19 dms, Mercantile Metal & Ore Corp, Havre
STARCH—475 bgs, Rotterdam
STEATITE—600 bgs—M Kirchberger & Co, Madras
STRONTIUM CHLORIDE—100 bgs, Heidis Inc, Genoa
STYRAX—120 cs, Meer Corp, Trieste
SULFUR, CRUDE—10,249 tons, Dixon Chemical & Research Inc, Coatzacoalcos
TRIOXIDE—1 dm, Allied Chemical & Dye Corp, Liverpool
TALC—7,010 bgs, Charles Mathieu, Genoa
TAMARINDS—18 bbls, Barbados
TANKAGE—1,006 bgs, International Packers Ltd, Montevideo
TARA POWDER—150 bgs, Callao
TARTARIC ACID—200 bgs, Nylos Trading Co, Genoa
TEA OF MATTE—88 cs, Herbarium Inc, Paranagua
THYME LEAVES—80 bls, Seek & Kade, Marseille
TONKA BEANS—2 dms, Wessel Duval & Co, Ciudad Bolivar
TRICHLOROETHYLENE—510 dms, Miny Corp, Venice
TUNG OIL—200 tons, Bunge Corp, Buenos Aires
TURMERIC—224 bgs, Magnus Mabee & Reynard, Kingston
56 bgs, Baltimore Spice Co, Kingston
UREA—2,940 bgs, Nylos Trading Co, Genoa
VALONIA CUPS—5,959 bgs, Barkey Importing Co, Izmir
EXTRACT—300 bgs, Olson Importing Co, Izmic
VANILLA BEANS—33 cs, Royal Bank of Canada, Dominica
86 cs, Packing Products Co, Vera Cruz
VETIVER OIL—4 dms, Port Au Prince
VITAMIN B1—43 cs, Takamine Overseas Inc, Yokohama
WAX—30 bgs, Strohmeyer & Arpe, Hamburg
WHITING—400 bgs, C B Chrystal Co, London
800 bgs, Bayer Co, London
2,400 bgs, N H Weitzner, Antwerp
1,200 bgs, Antwerp
WOOL GREASE—102 dms, Olympic Shipping Co, Manchester
40 dms, Olympic Shipping Co, Genoa
ZINC CHLORIDE—600 dms, Leading Forwarders, Liverpool

Los Angeles

MOLASSES—2,339 long tons, The Southwestern Sugar & Molasses Co, Victorias
2,910,669 long tons, National Molasses Co, of California, Mazatlan
PEATMOSS—900 bls, Atkins Kroll & Co, Rotterdam
PEPPER, BLACK—80 bgs, Borneo Sumatra Trading Co, Djakarta
164 bgs, Mincing Trading Corp, Djakarta
15 bgs, Arthur J Fritz & Son, Singapore
382 bgs, to order, Singapore
PETROLEUM, CRUDE—29,024 long tons, The General Petroleum Co, Puerto la Cruz
21,105 tons, The Texas Co, Mamonal, Colombia
15,397 long tons, Standard Oil Co of Calif, Puerto la Cruz
42,154 long tons, Union Oil Co of Calif, Mena Al Ahmadi
16,208 long tons, Shell Oil Co, Vancouver

Philadelphia

ARGOL—500 bgs, Irving Trust Co, Naples
ASBESTOS FIBER—1,800 bgs, Chas Kurz & Co, Durban
700 bgs, Davies Turner & Co, Durban
916 bgs, Durban
5,268 bgs, Lourenco Marques
BEEF EXTRACT—210 cs, Buenos Aires
CASEIN—1,500 bgs, National Casein Sales, Buenos Aires
CRESYLIC ACID—275 dms, Rotterdam
FUEL OIL—78,734 bbls, Socony Mobil Oil Co, Curacao
GYPSUM—6,399 tons, U S Gypsum Co, Hantsport
LICORICE ROOT—6,640 bls, Antwerp
MAGNESITE—1,769 tons, Split
MENTHOL—75 cs, Phila National Bank, Santos
75 cs, Vicks Chemical Co, Santos
NAPHTHALENE—1,389 bgs, Barrett Chemical Co, Rotterdam
2,473 bgs, Antwerp
PALMKERNEL OIL—703 tons, Matadi
PETROLEUM, CRUDE—195,386 bbls, Atlantic Refining Co, Sidon
126,440 bbls, Atlantic Refining Co, Banias
120,555 bbls, Atlantic Refining Co, Puerto La Cruz
199,729 bbls, Gulf Oil Corp, Las Piedras
209,840 bbls, Gulf Oil Corp, Puerto La Cruz
123,352 bbls, Gulf Oil Corp, Mina Al Ahmadi
136,968 bbls, Atlantic Refining Co, Pamatacual
111,504 bbls, Socony Mobil Oil Co, Amuay Bay
210,967 bbls, Socony Mobil Oil Co, Mina Al Ahmadi
154,485 bbls, The Texas Co, Pamatacual
432,160 bbls, The Texas Co, Rastanura
133,043 bbls, The Texas Co, Las Piedras
QUEBRACHO EXTRACT—6,523 bgs, Buenos Aires
RAPE SEED—1,100 bgs, R T French, Rotterdam
RUTILE SAND—1,000 bgs, Foote Mineral Co, Brisbane
1,000 bgs, Metal Traders Inc, Brisbane
1,500 bgs, Sydney
SHELLAC—100 bgs, Mantrose Corp, Bremen
200 bgs, Carrol Shellac Co, Calcutta
TAPIOCA FLOUR—600 bgs, Stein Hall & Co, Parnagria
VANILLA BEANS—43 cs, Camax Co, Vera Cruz
WHITING—2,000 bgs, N H Weitzner, Antwerp
ZIRCON SAND—7,707 bgs, Brisbane

San Francisco

CARAWAY SEED—150 bgs, Langendorf Bakeries, Rotterdam
100 bgs, B C Ireland, Rotterdam
150 bgs, Beton Co, Rotterdam
125 bgs, Mincing Trading Corp, Rotterdam
CHINA CLAY—404 tons, Paper Makers Importing Co, Fawey
COCONUT OIL—251 tons, Foremost Food & Chemical Co, Manila
434 tons, Manila
COPPER CYANIDE—10 dms, C M C Chemicals Inc, London
COPRA—1,000 tons, Cargill Inc, Cebu
300 tons, Gargill Inc, Legaspi
EARTH COLORS—225 bgs, Castelazo & Associates, Bremen
MACE—28 cs, Rotterdam
PEATMOSS—250 bls, Lastreto Phillips, Rotterdam
800 bls, Atkins Kroll & Co, Rotterdam
PEPPER, BLACK—14 bgs, H M Newhall & Co, Singapore
84 bgs, Internatio Rotterdam, Singapore
952 bgs, Singapore
PALLACKLIVER OIL—200 dms, Wheeler & Miller, Yokohama
POTASSIUM CYANIDE—20 dms, C M C Chemicals Inc, London
SODIUM CYANIDE—70 dms, C M C Chemicals Inc, London
TAPIOCA—160 bgs, Internatio Rotterdam, Bangkok
UREA—229 tons, Atkins Kroll & Co, Antwerp
WHITING—1,800 bgs, Pluess Staufer, Antwerp
ZINC CYANIDE—10 dms, C M C Chemicals Inc, London

Obituaries

William Henry Bower

William Henry Bower, retired president of Henry Bower Chemical Manufacturing Company, Philadelphia, died September 19 in Easton, Md. He was ninety-two years old.

Mr. Bower joined Bower Chemical in 1885 and retired in 1940. During this period he was prominent in the development of the chemical industry of the country.

He served as president of the Manufacturing Chemists' Association during the period 1906-1908 and was a member of its various committees, including the executive committee for many years.

He took a leading part in the formation of the Compressed Gas Association in 1913 and served on its executive board until 1929, and was active in the affairs of the American Society of Refrigerating Engineers. He was one of the earliest members of the American Institute of Chemical Engineers and also a member of the Franklin Institute of Pennsylvania.

Dr. Camille E. Dreyfus

Dr. Camille E. Dreyfus, founder and chairman of Celanese Corporation of America, New York, and pioneer in the textile and chemical industries, died September 27 in that city. He was seventy-seven years old.

The chemical researches of Dr. Dreyfus and his brother, the late Dr. Henry Dreyfus, began in Basle, Switzerland, where they were born. The studies culminated in the founding of Celanese Corporation of America, British Celanese, Ltd., and Canadian Celanese, Ltd.

John Norman Forker

John Norman Forker, former vice-president and general manager of coaltar products for Koppers Company, Pittsburgh, Pa., died September 18 in London, England. He was seventy years old.

Mr. Forker was with Koppers thirty-two years. He was appointed vice-president in 1936 and became general manager of the tar products division in 1945. He retired from Koppers in 1949 and opened John N. Forker, Coaltar Chemicals, New York, in partnership with his son.

Frederick Soddy

Frederick Soddy, winner of the Nobel Prize for chemistry in 1922, died September 21 in Brighton, England. He was seventy-nine years old.

Prof. Soddy won his Nobel award for his pioneer work on isotopes. In collaboration with Ernest Rutherford, he evolved the general theory of radioactive disintegration and a new conception of the atom as a structure built from a positive nucleus surrounded by electrons. They also discovered that the instability of this structure was the cause of radioactivity.

Ben P. Steele

Ben P. Steele, who operated his own heavy chemical firm in New York for the past twelve years, died September 25 in New York after a long illness. He was sixty-one years of age.

Mr. Steele had been active in the heavy chemicals industry for forty-two years. Prior to forming his own company, he had been associated with W. F. George Company, New York; Michigan Alkali Division of Wyandotte Chemicals Corporation, Wyandotte, Mich., and Pennsylvania Salt Manufacturing Company, Philadelphia.

Rupert T. Zickl

Rupert T. Zickl, investment banker and a director of Virginia-Carolina Chemical Corp., Richmond, Va., died September 25 in White Plains, N. Y. He was sixty years old. Mr. Zickl was leader of a group of insurgent stockholders who won control of the $64 million concern in July following a proxy fight.

Robert P. Ford, a vegetable oils broker, died September 23 in New York. He was fifty-nine years old. Mr. Ford was New York city sales representative for National Products Company, Standard Brands and Capital City Products Company.

Fred G. La Piana, former director of textile research for Stein, Hall & Co., New York, died September 20 in that city. He was seventy-one years old. Mr. La Piana joined Stein, Hall in 1925 and retired in 1955.

FAO Elects Sen of India Director on Third Ballot

Shri B. R. Sen, ambassador of India to Japan, has been elected director-general of the Food and Agriculture Organization (FAO), after two ballots by the seventy-four member nations failed to produce a majority earlier.

The vote on the third ballot was forty-two for Sen and twenty-nine for Dr. S. L. Mansholt, Minister of Agriculture, Fisheries and Food in the Netherlands. A report received from the special conference of FAO, currently meeting in Rome, Italy, to select a new director-general for the organization, stated that the United States abstained from voting when the third ballot was taken, and that two ballots were spoiled.

Before the vote was taken, the US nominee, John H. Davis, director of program in agriculture and business at Harvard University Graduate School of Business Administration, announced that he had withdrawn from the race.

Faesy & Besthoff Moves

Faesy & Besthoff, Inc., has moved its offices to new and larger quarters at 25 East 26th street, New York 10. The telephone number is MUrray Hill 4-2700. Faesy & Besthoff is a manufacturer of garden and home agricultural chemicals and a distributor of industrial and farm chemicals.

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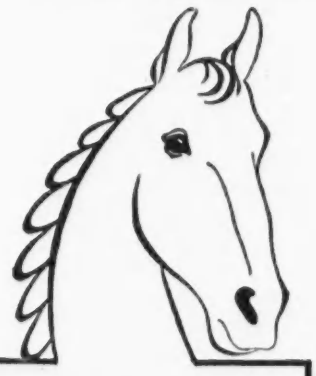

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Oils, Fats Output, Use: August

Statistics on production and consumption of oils and fats, including raw materials and primary products except oil have been compiled by the Bureau of Census, Department of Commerce, for the month of August. The data are as follows:—

Primary Products Except Oil

	Tons		
	Production	Shipments	Stocks Aug. 31
Cottonseed cake and meal	85,222	129,121	120,288
hulls	40,785	62,826	55,123
linters[1]			
First cut	11,236	18,965	52,652
Second cut	33,342	46,990	41,664
Mill run	3,593	3,848	9,010
Total	53,171	69,803	103,326
hull fiber	774	933	334
motes and grabbots	374	700	1,939
Soybean cake and meal	513,128	549,398	145,738
flour	8,903	8,790	1,771
Lecitin	1,419	N.A.	1,365
Other cake and meal—			
Castor bean	1,274	1,482	687
Copra	8,932	11,133	2,563
Corn germ	13,018	13,423	587
Flaxseed	17,713	30,820	11,036
Olive			
Peanut[2]	N.A.	N.A.	N.A.
Tung nut		[3]	[3]
Other	6,997	5,582	4,183

Raw Materials at Mills

	Tons		
	Receipts	Crushings	Stocks Aug. 31
Castor beans	1,481	2,349	1,253
Copra	28,399	25,879	13,350
Corn germ	29,787	30,086	785
Cottonseed	354,799	181,552	360,716
Flaxseed	34,208	26,117	29,423
Olives			
Peanut[4]	N.A.	N.A.	N.A.
Soybeans	230,781	653,796	370,790
Tung nuts			
Other	14,634	9,667	5,555

N.A. Not Available.
[1] Average gross bale weight in pounds for August production:—Total, 620.0; first cut, 605.8; second cut, 626.6; and mill run, 593.1.
[2] Data collected by Agricultural Marketing Service, Department of Agriculture.
[3] Included in "other" to avoid disclosure of figures for individual companies.
[4] Data on peanuts collected by Agricultural Marketing Service, Department of Agriculture, and include reports by peanut shellers.

Consulting Chemists to Hold Symposium on October 23

Association of Consulting Chemists and Chemical Engineers will hold a symposium in conjunction with i's annual meeting on October 23 at the Belmont Plaza hotel, New York.

Topic of the symposium will be "How Consultants' Know-How Applies to Packaging of Consumer Goods." L. C. Cartwright of Foster D. Snell, Inc., New York, will be the guest speaker. Maurice S. Sage of Sage Labora'ories, Inc., New York, will moderate the discussion.

The meeting will get under way at 5:45 p.m. Price per person is $10. Letterhead reservations with remittance must be received not later than October 18 addressed to ACCCE Room 82, 50 East 41st street, New York 17.

Helium Plant in Texas Slated for Expansion

An expansion of the government's helium plant at Exell, Tex., to meet increased demands for the gas, is being undertaken by the Department of Interior. A contract has just been signed with Quaker Valley Constructors, Inc., Pittsburg, Kans., for construction of a $1 million addition to the plant.

Marlin J. Ankeny, director of the Bureau of Mines, said that enlargement of the Exell plant is expected to enable the bureau to meet demands for helium until 1959 or 1960. After that, another plant may be required, he said.

Carbon Calcining

—Continued from page 4

new company will also handle the sales of green or uncalcined coke.

Construction of the plant has already been started. Initial operation is projected for January, 1957.

Sohio has been producing and marketing petroleum coke for the past fifty years. Pitt-Consol, meanwhile, is taking another step forward in its overall program of upgrading coal. The coke to be supplied Mountaineer Carbon by Pitt-Consol will be produced from the heaviest coal liquids that will be made in the coal company's recently announced $25 million coal processing plant, being constructed adjacent to Mountaineer Carbon's calciner. This coal processing plant in turn will be supplied by the new 3 million-tons-per-year Ireland Mine.

The Cresap location of the new calcining plant is at the center of the growing aluminum and chemical industries on the Ohio River.

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Essential Oils, Aromatics

This market last week showed renewed interest as both price and supply activity developed along firmer lines. Bois de rose, though showing more strength all the time, continues at its previous price level. Chenepodium moved up 30 cents per pound to a $3.75 listing. The movement, according to dealers, was made on the strength of reports from source that the carryover from last season is rather small. Formosan citronella, following a reverse trend, went down another 10 cents per pound in price last week to a $1.25 per pound inside listing. Geranium bourbon on the other hand reflected the general healthy tone of the European floral oils and advanced 25 cents to a $13.75 per pound quote.

Independent lemon growers continued to bring the price of their commodity down to meet the pressures of the flagging market. The current quote is $4.25 per pound. Dealers also attribute the price shading to the slipping price of the organized California dealers. This latter group has been dropping its price to independent market levels since the beginning of the seasonal period.

Movement also prevailed in the aromatic chemicals market where price shifts took place in benzyl salicylate, citronellol, citronellyl and geranyl. The benzyl material advanced while the other three all declined on spot.

In the seeds and spices arena the most fervent activity was reported in the paprika market where a dearth of supply has limited sales to the remnants of Yugoslavian old crop left on spot. Current listings for that material are 37 cents per pound. With no reports of Spanish material available and no other material for shipment in sight, the situation might become even more restricted than it already is.

PriceTrends

Advanced

Benzyl salicylate, 10c. per lb.
Cassia, 1c. per lb.
Oil, chenepodium, 30c. per lb.
Citronella, 10c. per lb.
Geranium, bourbon, 25c. per lb.
Paprika, Yugoslavian, 3c. per lb.

Reduced

Citronellol, 20c. per lb.
Citronellyl, acetate, 20c. per lb.
Oil, lemon, 25c. per lb.
Vetiver, Haitian, 35c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
138.27	138.29	137.85	134.84

For Current Prices see Page 9

Essential Oils

Bois de Rose—The position of this essential oil continued to firm on both source and spot levels last week, dealers here reported. Price advances in many areas, particularly on spot, have been quoted, but for the most part the material continues close to previous levels. However, tight control of the supply and production situation, according to dealers here, will eventually make itself felt.

Chenepodium—Current listings stiffened somewhat on spot last week. The movement was made on the strength of reports from source that the carryover from last season is rather small. The current quote, $3.75 per pound is 30c. higher than that of the previous week. However, the distillation of newcrop, which is expected to commence in October, should be the final strong factor in the market. Depending upon size and quality of the crop, the market should rise or fall, and the current dependency upon the remnants of last years material should only be temporary.

Citronella—The market for citronella as a whole showed a soft tone last week as spot prices continued to decline. The current listing for Formosan quality material is $1.25 per pound or 10c. less than previously quoted. Heavy shipping price declines a month or two back gave the initial downward impetus to this material and the market has been suffering ever since.

Geranium — Bourbon quality material continued to advance in price last week, dealers here reported. The new spot listing of $13.75 per pound is 25c. above that of the previous week. The shift reflects, it was said, the over-all strong position of the European floral oil market.

Lavender—Latest reports from one major company noted last week that something is being done to alleviate the light supply markets of the past year. The action taken, it was said, should also relieve the situation in quality material. With the purchase and planting of new acreage in source areas, coupled with the distribution of shoots and seeds to independent small growers, the producer has assumed the market of a much heavier crop next year. For this year, it was said, buying should be limited to minimal day to day purchases.

Statistics reported earlier and verified by the major producer noted that only about 55 tons of lavender oil is expected this year. This represents the remainder of a crop cut 20-25 percent. It was noted that while the older plants suffered the greatest damage, the younger shoots and plants withstood the weather very well.

Prices continued tight at both source and spot with little hope of relief in sight for this year.

Lemon—Independent growers brought the price of this material down again last week, reports here on spot noted. The price shift was in keeping with the decline of the seasonal market which, since the end of August, has been slowly softening. The current quote by independent growers is $4.25 per pound or 25c. per pound less than previously listed. Organized growers price continues to be quoted at $4.50 per pound.

Spot buyers and dealers said that the market this past season has been particularly strong and that the decline has been very orderly and in the nature of a tapering-off. Post-seasonal are expected to show some remainder of the seasonal strength that was amassed.

Veviter—Haitian quality material last week continued to show a soft tone, dealers here reported. Current listings of the material at $9.25 per pound or 35c. per pound less than previous quotes. This is the second price break in the last few months, dealers noted.

Aromatic Chemicals

Benzyl Salicylate—Listings for this material climbed last month, dealers here reported. The current quote, a range of $1.60 to $1.85 per pound is 10c. higher than that previously listed.

Citronellol—Coeur quality (alcohol 90-92 percent) of this aromatic chemical sank in price last week. Dealers reported it as the obvious result of declining source material prices. The current listing of $4.30 per pound in 200/400 pound lots ($4.35 in 25/50 pounds lots; $4.45 in 5/10

Pepper Imports: Jan.-Sept.

Following are data compiled indicating white and black pepper production for the first nine months of the year. The table also includes figures, for comparison purposes, of the first nine months of last year.

	BLACK PEPPER		WHITE PEPPER	
	1955	1956	1955	1956
January	878 tons	2,127 tons	60 tons	55 tons
February	1,300	1,703	60	50
March	1,171	1,206	231	110
April	790	956	92	71
May	1,490	751	3	121
June	1,507	633	47	103
July	1,765	1,562	15	152
August	1,537	1,469	130	145
September	1,632	1,500	164	100
Total	12,170 tons	11,907 tons	802 tons	891 tons

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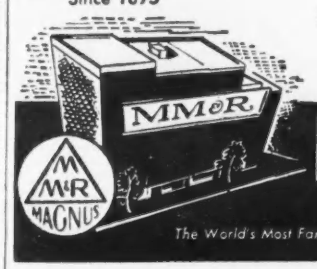

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Essential Oils

pound lots and $4.60 per pound in 1 pound units) is 20c. per pound less than that of a week previous. The tone of the market is expected to continue soft for some time, it was said.

Citronellyl—Two qualities of this aromatic chemical, citronellyl acetate and citronellyl propionate, softened on the market last week. The new listing for citronellyl acetate (in 25/50 pound lots) is $4.35 per pound or 20c. less than previously quoted (in 5/10 pound lots) the material is selling for $4.45 per pound and in 1 pound units it goes for $4.60). Citronellyl propionate is currently listing at $6.70 per pound, a 30c. per pound drop from the previous quote.

Dealers attributed the listing decline for this and other materials in the market to the current soft tone of the source material.

Geranyl—All four grades of this material sank in price last week, dealers here reported. Current listings for geranyl are:—Geranyl acetate, $3.95 per pound in 200/400 pound lots; $4 in 35/50 pound lots, $4.10 for 5/10 pound sales and $4.25 in 1 pound units. This price is 20c. per pound less than previously quoted.

Geranyl butyrate is selling for $6.50 per pound in 25/50 pound units; $6.60 in 5/10 pound units and $6.75 for 1 pound sales. The material previously sold for 40c. more per pound.

Geranyl formate is listing at the same as butyrate, also having declined 40c. per pound on spot.

Geranyl propionate is being sold at $6.55 per pound in 25/50 pound lots; $6.65 per pound in 5/10 pound lots and $6.75 in 1 pound units.

Seeds and Spices

Cassia—This material was reported firmer on both spot and abroad, dealers here reported late last week. Current listings are 1c. higher per pound, across the board in all qualities of both Batavia and Corinje cassia.

Paprika—Dealers expressed some concern last week about the current and developing famine of this material on the market. According to reports, there has been neither newcrop nor crop information from Spain. The usual market development at this period of the year involved buyers selling their last loads of old crop early in September and picking up the first portions of the new material at the end of the month. However, without information of the Spanish newcrop, nor any hope of it for some time, dealers find themselves in an empty handed position. The only material available is Yugoslavian, and that is not new but old crop. Prices for that are now listing at 37c. per pound on spot, 3c. higher than at the end of last week, and 35c. per pound for early October shipment and 34c. per pound for late October shipment.

Pepper—A market report of the period preceding Friday a week ago noted that that week's rather drastic decline affected mainly spot values although asking prices gave ground to some extent in sympathy with New York. Among the factors which furthered the decline was the conviction gaining ground that no real waterfront tie-up was expected for a while. The Suez situation, while spelling substantial delays of some steamers, did not warrant any undue alarm despite the fact that a solution seemed more remote than ever. Altogether, the market relapsed into that kind of apathy which had characterized its course for most of this year. This mood was fostered by an attitude of indifference, if not active resistance among grinders who seemed content to watch as differentials were slowly being plowed under. Unfortunately for the trade as a whole, this may result in a situation without gain to anyone.

The pressure exerted on the market was, however, not limited to mere spot liquidation. Sales of several hundred tons by India to China and Eastern European countries may have induced certain interests to attempt to discourage the New York market while those sales were being covered. The relative steadiness at the source seemed to bear this out. It was significant that short sales of forward positions were extremely few.

By rights the market should have entered upon a period of increased demand at this time of year.

Poppy Seed—Dealers reported an easing tone to this market last week as the result of a break in the Dutch market. Spot listings remained unmoved though some response to the source situation is to be expected.

N.Y. Paint Club to Meet

The New York Paint and Varnish Production Club will hold its October meeting at the Brass Rail restaurant, New York, October 4. A review of technical developments of the past year will be given by the technical committee.

Naval Stores Breakfast Slated To Be Held at NPVLA Meeting

A naval stores breakfast will be held during the annual convention of the National Paint, Varnish and Lacquer Association, being held November 12 through 14 in Los Angeles. The breakfast will be held at the Statler hotel, Los Angeles, November 13.

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Petroleum Derivatives

If solvents and diluents move at a seasonally good rate during the next three months, sales figures at the end of the year will show an increase over 1955, producers said last week. A gradual upturn in demand for these materials has been noted, but as yet sales are only slightly above the summer level. More substantial gains are expected in the first weeks of October. In waxes the situation is opposite—at present sales are lively, as consumers attempt to stock up before October 1 price advances become effective. Afterwards sales are expected to evidence a corresponding decline.

Propane was reported to be moving well following a recent ½c. per pound price increase. Consumers were still being urged to buy up this material to avoid a depletion of stocks when demand reaches its height next winter. Last year local shortages of the material developed.

A Mississippi shipment of toluol was unloaded before reaching its destination last week because of shallow waters. Unless a good rainfall raises the water level, a serious transportation problem could develop, producers said. Shippers might have to resort to higher cost rail transportation, it was noted.

Rumors that the Wood River, Illinois price of toluol would be reduced ½c. were confirmed last week as producers announced that such a move was under consideration. They pointed out though that the great volume of business in that area was accounted for by the Chicago price of 32c. per pound.

According to the weekly A.P.I. report, crude oil production increased while crude runs decreased during the week ending September 14. Daily average output of crude (including lease condensate) was 7,049,000 barrels, an increase of 12,000 barrels.

October 1 Price Advances

Wax, microcrystalline, laminating grades, ½c. per lb.
Paraffin, crude, ½c. per lb.

Price Trends

Advanced
None.
Reduced
None.
Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
105.47	105.47	105.47	104.32

For Current Prices see Page 9

Solvents and Diluents

Benzol—Conservative estimates of 1956 benzol sales by sources close to the industry place the final total 2-4 percentage points above last year's figure. This calculation is based on the assumption that fourth quarter sales will be seasonally normal. The market volume this month has shown a slow but steady advance over the summer pace and is expected to reach a fourth quarter level by mid-October. Supplies are still heavy, particularly so, because of the sizable volume of foreign material which has been put on the market. No fourth quarter price revisions have been posted.

Mineral Spirits—A gradual upturn in demand has been noted, but as yet sales are only slightly above the summer level. If seasonally brisk buying interest develops during the fourth quarter, total business for the year should show a small advance over 1955, according to trade sources. Price quotations are steady and unchanged.

Partial Aromatics — Sharp competition for available buying outlets was noted in this market last week. As previously, many producers were offering to make long distance shipments as a concession aimed at increasing sales. Competition has not resulted in price reductions, though, and the entire list has continued to hold steady and unchanged.

Toluol—While the amount of material going into export has been reduced somewhat, supplies for domestic consumption are still heavy enough to constitute a major problem in the industry. As reported previously, the problem will diminish in scope when more gasoline manufacturers have installed facilities to permit the material to run directly into fuel. Furthermore, consumption in this direction seems capable of unlimited expansion in view of the increases in engine horsepower which automobile makers feel obliged to introduce with each new model.

There was some talk last week that the Wood River, Illinois price might be reduced 1c. to 34c. While acknowledging that this move was under consideration, industry sources said the net difference would be negligible, as the great volume of business in that area is accounted for by the Chicago price of 32c. per pound.

A more important question has developed in connection with Mississippi River transportation. One shipment had to be unloaded before reaching its destination last week because of shallow waters. If this situation were to become more acute—that is, unless it rains in that area very soon—shippers might have to resort to a more expensive means of transportation.

Waxes

Microcrystalline — A ½c. advance in laminating grades will become effective October 1. Meanwhile, sales are moving at a good clip as consumers crowd the market for last minute buying under the old price. As a result, business is apt to show a temporary decline after the increase becomes effective.

Paraffin — Crude paraffin is scheduled to be advanced ½c. per pound October 1. As with microcrystalline, this announcement has had a stimulating effect on business, but a corresponding decline can be expected to last for a week or so after the increase is put into effect.

Miscellaneous

Crude Oil—Current reports of the industry for the week ended September 14 indicate an increase in crude-oil production and a decrease in crude runs. According to the A.P.I., the daily average output of crude (including lease condensate) was 7,049,000 barrels, an increase of 12,000 barrels from the preceding week. Daily average crude runs to stills of 8,078,000 barrels were 109,000 barrels below the preceding week, and 607,000 barrels above the week ended September 16, 1955. Runs of foreign crude amounted to 992,000 barrels daily, compared with 1,110,000 barrels in the preceding week. For the four-week period ending September 14, crude oil production averaged 7,080,000 barrels daily and crude runs to stills averaged 8,077,000 barrels daily with runs of foreign crude averaging 1,004,000 barrels daily.

Crude oil production in Saudi Arabia during August totaled 31,184,218 barrels, or an average of 1,005,943 barrels per calendar day, as compared with 29,145,710 barrels, or an average of 90,184 barrels per day, during the same month last year. Total production of crude oil during the first eight months of 1956 was 253,790,676 barrels, an average of 1,040,126 barrels per calendar day, as compared with a total of 229,279,449 barrels, an average of 943,537 barrels per calendar day, during the same period last year.

United States imports of crude oil in August were 32,000 barrels per day lower than the amount forecast last month, according to a report by the Texas Railroad Commission. The commission estimated last month that August imports would reach 1,004,804 barrels per day.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended September 15 totaled 275,253,000 barrels, according to data reported to the Bureau of Mines. Compared with the total of 273,465,000 barrels for the preceding week, this represents an increase of 1,788,000 barrels, comprising an increase of 657,000 barrels in stocks of domestic crude and an increase of 1,131,000 barrels in stocks of foreign crude.

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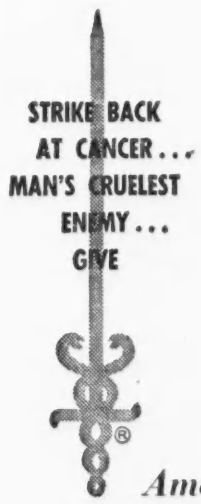

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Coatings Materials

Quotations on coloring materials will probably be held steady through the balance of 1956, but the first of the year will witness numerous changes, pigment makers said last week. At present, cost increases and changed market conditions are being taken into consideration as producers prepare first quarter price lists for 1957. Decisions will hinge closely on developments in supplying industries, particularly dyestuffs, producers said. Also isolated cost changes—for example, the recent advance in benzidine compounds—are being weighed, to determine whether corresponding revisions are warranted.

For October 1, phthalates are the only major materials for which price changes have been reported. Diethyl and dimethyl will be advanced ½ cent per pound, reflecting an increase in phthallic anhydride. On the other hand, octyl phthalates will be reduced 2 cents per pound in response to sharply competitive market conditions. This set of revisions is already effective on spot. Refined white water-ground barytes will be advanced to $49 in carlots and $70.85 in less than carlots, exwarehouse, effective October 1. Current listings are $4 and $5 lower, respectively. On the same date, Western differentials on butylated coating resins will be raised.

October 1 Price Advances

Diethyl Phthalate, ½c. per lb.
Dimethyl Phthalate, ½c. per lb.

Upward movement in demand was apparent in most sections of the market last week, although a few materials were lagging. Among the latter were antimony oxide, shellac and casein. As previously, materials connected with indoor paint, industrial finishes and automobiles were the strongest items in the market:—synthetic resins, plasticizers, titanium dioxide, lead pigments and zinc pigments.

Prime Pigments

Aluminum Paste, Powder — Net shipments of atomized and grained powder during July totaled 754,000 pounds, as compared with 684,000 pounds during the previous month. Flaked powder shipments were 392,000 pounds, as against 323,000 pounds in June. Shipments of aluminum paste came to 1,590,000 pounds, as compared with the previous month's total of 1,112,000 pounds. July 1955 totals were, respectively, 762,000, 311,000, and 1,306,000 pounds.

Antimony Oxide—This market has been slow to recover from the summer sales lag, producers reported. While the material has shown some improvement in demand, the gains have been proportionally less than in other prime pigments. As a result, supplies are still leaning toward the long side. Unchanged quotations are 27c. per pound for carlots and 28½c. per pound for less than carlots.

Chrome Colors—Production of chrome green (chrome yellow and iron blue) during July was 299 short tons, a sizable decline from the 455 short tons produced the previous month, according to the monthly Census Bureau report. Chrome oxide green production in July was 590 short tons as compared with 770 short tons in June. Output of chrome yellow and orange was 1,420 short tons, as against 2,258 short tons in June. Molybdate chrome orange production figures reached 274 short tons, indicating a substantial drop from the 447 short tons produced in June. Zinc yellow (zinc chrome) output amounted to 644 short tons, as compared with June production of 544 short tons. It was the only material evincing increased production.

Lead Pigments—Demand was sustained last week at the high level that has been noted in the market since early this month. Trading was sparked by paint and automobile outlets, although other fields were showing good seasonal interest. No shortages developed, nor are any expected, in view of high level production and fairly ample inventories.

Natural Resins

Copal Gum—Prices held steady through a week of fluctuating demand. Current quotations on Congo qualities are 25c. per pound for No. 1, 20c. per pound for No. 2, and 17c. per pound for No. 3.

Dammar Gum—Market remained moderately active on a hand to mouth basis. Current Manila grade listings are Loba C, 41c. per pound; DBB, 27¼c. to 29c. per pound; MA, 18½c. to 21c. per pound; and Philippine Pale Chips, 21½c. to 24c. per pound.

Shellac—Prices moved back and forth fractionally in a generally slack market. By week's end quotations stood steady at previous listings:—49c. per pound for lemon No. 1, 47c. per pound for No. 2, and 46c. per pound for superfine.

Price Trends

Advanced
None.

Reduced
None.

Comparative Price Indexes
(100—1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
100.14	100.14	100.13	97.17

For Current Prices see Page 9

Synthetic Resins

The following figures show production in pounds for July and list June's figures for comparison, as reported by the Tariff Commission:—

Production	†June	†July
Phenolic and other tar acid resins:—		
Laminating resins	*8,705,633	6,568,988
Adhesive resins	*2,839,129	3,414,006
Protective coating resins, modified, unmodified, except by rosin	*2,292,968	1,793,090
Urea and melamine resins:—		
Adhesive resins	*12,466,025	7,974,237
Protective coating resins, straight, modified	*2,534,879	2,195,973
Styrene resins:—		
Protective coating resins, straight, modified	*7,895,160	5,977,757
Vinyl resins:—		
Total, all types	*54,795,808	49,750,804
Alkyd resins for protective coatings—		
Phthalic anhydride types, unmodified	*21,534,533	18,931,915
Modified with tar acids, rosin and or other materials, except styrene	*5,565,774	4,813,167
Polybasic acid types except phthalic:—		
Unmodified	*348,171	208,109
Modified with tar acids, rosin and or other materials, except styrene	*1,085,848	755,708
Rosin modifications for protective coatings:—		
Rosin, rosin esters, unmodified (ester gums, esterified with glycerol)	*1,263,747	1,381,121
esterified with other alcohols, (pentaerythritol, glycols, etc.)	*1,077,729	774,164
Rosin, rosin esters, modified:—		
Modification with phenolic and other tar acid resins	*1,925,954	1,652,341
Modifications with maleic and fumaric acids	*2,764,075	2,479,357
All other modifications	*3,512,464	2,442,267
Coumarone—indene and petroleum polymer resins	19,465,159	19,241,429
Miscellaneous synthetic plastics and resins materials:—		
Protective coating resins (including epichlorohodrin, acrylic polyester, silicone and other resins)	980,511	844,338

† Partly estimated.
* Revised.

Alkyds—Sales were brisk, particularly in outlets involving industrial finishes, producers reported. No price revisions were announced for the fourth quarter. Supplies were reported ample for all market requirements.

Urea-Formalkkdehydes—A major manufacturer is raising the west coast price of butylated coating resins 1½c. per pound, effective October 1. Eastern prices will be unaffected.

Lacquer Materials

Adipates — No fourth quarter price changes were announced. Business volume continued moving upward in response to increased production in consuming industries. Supplies are ample to meet market needs.

Dibutyl Phthalate — It appeared last week that producers of this plasticizer had decided to absorb the recently posted increase in phthallic anhydride and ad-

Coatings Materials

vances in certain alcohols scheduled for October 1. Last week was the deadline for fourth quarter contract changes, but it is always possible that spot prices might be changed, observers noted.

The pace of business was brisk last week. Vinyl plastics, automobiles, and paint were the fields accounting for the bulk of sales. Supplies were reported plentiful.

Dimethyl Phthalate—This material will be hiked ½c. per pound October 1 to offset cost increases in basic materials. Spot prices have already been raised. Brisk trading continued in evidence as sales totals were brushing close to regular fourth quarter levels.

Diethyl Phthalate — Spot increases of ½c. per pound have been in effect, and contract prices will be similarly raised October 1. The move was nearly unanimous in the trade, and remaining manufacturers are expected to follow suit. Lively sales were reported, with vinyl plastics accounting for increased trading volume.

Dioctyl Phthalate—A 2c. price reduction was recently posted, settling a previously confused price setup caused by competitive shading. Although this aspect of the problem has been resolved, sales competition in this market is still keen. As noted here before, the root of the problem lies in the fact that producers have multiplied faster than consumers in the past few years.

Sebacates—All varieties of this plasticizer will go into the fourth quarter unchanged in price, producers announced. Last week's sales volume was judged good by market sources. Supplies are plentiful.

Fillers and Inerts

Asbestos — Industrial construction and automobile manufacture are scheduled for heavy fourth quarter production, and should assure a good sales volume in this market, producers said. Prices have been steady since the first of the year.

Barytes — Quotations on white waterground barytes will be hiked from $45 to $49 per ton for carlots, October 1. Less than carlots will be upped from $65.85 to $70.85 per ton.

Calcium Carbonate—Seasonally moderate business was reported by the main producers in this field. Supplies appeared adequate to meet market needs. Prices have been steady throughout the year.

Miscellaneous

Casein—Prices were shaky against a moderate volume of trading but were unchanged by the end of the week. The current Argentine yield is reported to be extra heavy, and this has encouraged consumers in the belief that prices will be lower. New Zealand casein has continued to move in small but steady qualities, with prices holding firm.

Dried Blood, Soluble—Quotations were steady at 13-14c. per pound for carlots, 15-17c. per pound for truckloads, and 15½-35½c. per pound for less than truckloads.

Stearates—Prices have held steady despite small advances in stearic acid and other basic materials. It is not known yet whether first quarter 1957 prices will be revised to offset these increases.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Sep. 21	Mon. Sep. 24	Tues. Sep. 25	Wed. Sep. 26	Thurs. Sep. 27
Drums—					
M	...	...	$8.25	$8.20	...
N	$8.35	...	8.23‡	...	...
WG	8.55	$8.45	...	...	$8.48‡
WW	8.73‡	8.70	...	8.75	8.75
Bags—					
E	8.15	...	...	...	...
M	...	...	...	8.15	...
N	...	...	8.15	8.23‡	...
WG	...	8.35	...	...	8.25

Tankcars (for week ended Sept. 21)
M or better, $7.75.

Sales, USDA
516* 313* 362* 2,427* 813*

New York
(per 100 lbs., c.l., Friday)
B through N, $9.40; WG, $9.55; WW, $9.65.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	...	...	...	.60	.5575
Sales	...	...	...	4,000¶	4,000¶

New York, Friday, per gal. 7 lbs., tankcars, 63½c., l.c.l., 75c.

* Drums equivalent. ¶ Gallons. ‡ Average price.

Urethane Foam, Rubber Patent Is Granted by US

A patent has been issued by the Patent Office to Farbenfabriken Bayer, Leverkusen, Germany, on a basic process for manufacturing flexible and rigid polyurethane foams and rubbers.

Mobay Chemical Company, which has control of the patent in this country, was formed as a joint venture of Monsanto Chemical Company, St. Louis, Mo., and Bayer to manufacture isocyanate and polyester resins used in the patented process.

The invention covered by the patent provides an injection technic used in the manufacture of urethane products which permits closer quality control of the process as basic chemical ingredients are blended and mixed under pressure.

The technology involved is currently being employed by a group of American firms which have been licensed by Mobay to use the newly-patented technic, and which are currently in commercial production of urethane foams, rubbers and related products.

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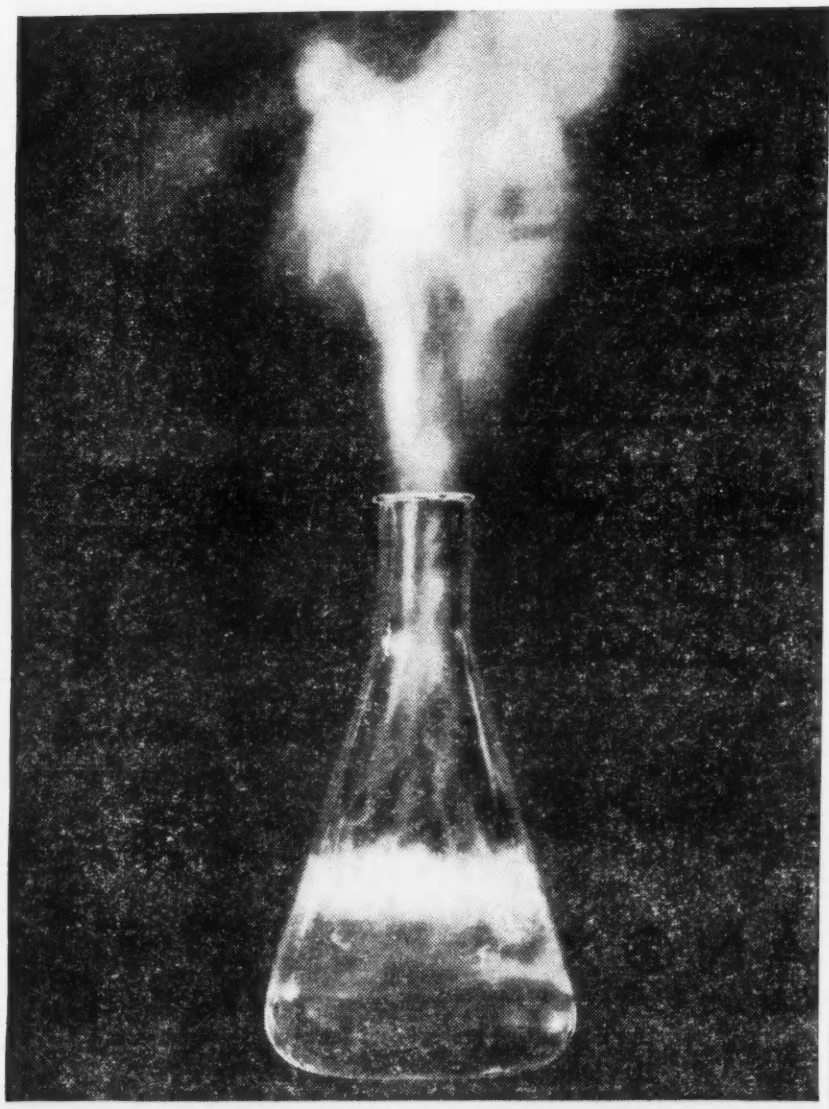

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Sylvania Spokesman Urges More Atomic Test Reactors

More reactors to test materials for atomic energy applications are urgently needed, if the United States is to maintain its nuclear leadership, Stanley B. Roboff, manager of industrial coordination, atomic energy division, Sylvania Electric Products Inc., said last week. He spoke before a session of the Atomic Industrial Forum's annual conference, in Chicago.

There is but one major test reactor operating in the country today which can provide the kind of data required to solve major materials problems, Mr. Roboff said, and that is the Atomic Energy Commission's materials testing reactor which is being principally devoted to high-priority military work.

The future of nuclear reactor technology "is riding primarily on the solution" of materials problems in nuclear fuels, control elements, and other components, Mr. Roboff said. Materials for use in reactors for electric power production, and aircraft and ship propulsion all have to be tested under extreme conditions of radiation before the reactors can be developed, he said.

Fluorspar Buying

—Continued from page 7

in writing to the commissioner, Defense Materials Service, GSA, Washington 25, D. C. The following specifications and price will apply:—

"(a) Fluorspar to be purchased shall meet chemical and physical requirements which are not less favorable to producers (sellers) than those set forth in the National Stockpile Material Specifications P-69a, dated February 13, 1952, copies of which may be obtained by writing to the commissioner, Defense Materials Service, General Services Administration, Washington 25, D. C.

Base Price $53

"(b) The base price of fluorspar to be purchased shall be $53 per short dry ton f.o.b. carrier's conveyance at producer's (seller's) milling point for base quality fluorspar containing 97 percent calcium fluoride and 1 percent silica on a dry weight basis. The base price shall be adjusted by premiums or penalties which are not less favorable to producers than the following:

"(1) The price shall be increased 1.1 percent for each 1 percent calcium fluoride above 97 percent, fractions pro rata, and/or

"(2) The price shall be increased 4.2 percent for each 1 percent silica below 1 percent, fractions pro rata, and/or

"(3) The price shall be decreased 1.1 percent for each 1 percent calcium fluoride below 97 percent, fractions pro rata, and/or

"(4) The price shall be decreased 4.2 percent for each 1 percent silica above 1 percent, fractions pro rata.

"(c) For the purpose of determining the number of short dry tons (or fractions) upon which payment will be based, the dry weight, in pounds, shall be increased by one (1) per centum and the result divided by 2,000. Dry weight shall be determined by deducting from the delivery weight (out-turn U.S. Railroad Scale Weights) all moisture, as established by the certificates of analysis of the General Services Administration's sample."

Chemical Workers

—Continued from page 3

amounting to 24.3 percent of the payroll. The chemical industry's payments amounted to 45.2 cents per payroll hour or $946 per year per worker. The petroleum industry's fringe payments equaled 61 cents an hour or $1,278 per year per worker.

The 45.2 cents an hour consists of 7.3 cents for legally required payments (old-age and survivors insurance, unemployment and workmen's compensation, etc.); 12.6 cents for pensions and other agreed-upon payments; 6.6 cents for paid rest periods (lunch, travel, etc.); 13.5 cents for time not worked (vacations, holidays, etc.); and 5.2 cents for other items.

The 12.6 cents an hour paid for pensions and other agreed upon schemes in the chemical industry is slightly above the average for the 1,000 reporting companies of 12.2 cents but only about half the 24.9 cents paid in the petroleum industry.

The other side of the question showed employee payroll deductions for fringe benefits amounting to 7.3 cents per payroll hour or $152 a year, equal to 3.5 percent of the payroll.

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Bids Wanted

Benzene hexacloride, 67,612 lbs., inv. 94, Oct. 15, Contracting Officer, Patrick AFB, Fla.

Disinfectant, 5,460 1-qt. bots., 3,812 5-gal. dms., germicidal and fungicidal disinfectant, overseas pack, inv. 211, Oct. 5, Armed Services Medical Procurement Agency, 84 Sands St., Bklyn. 1, N. Y.

Drugs, various quantities lavender oil, lemon oil, orange peel tincture, refined paraffin, peppermint oil, pilocarpine nitrate, pilocarpine hydrochloride, potassium chloride, East & West Coast, inv. A-121, Oct. 8, Vets. Adm. Chief, Proc. Div., Supply Service, VA Bldg., Washington 25, D. C.; 32,400 ½-oz. bots. diphenhydramine hydrochloride, USP, 64,368 bots. tetracycline hydrochloride, USP, 0.25 gm., potency 24 mos., 94,176 bots. of 100 same, potency 48 mos., 33,408 bots. same, 0.1 gm., potency 24 mos., overseas pack, inv. 213, Oct. 5, 12,696 1-pt. bots. opium tincture, camphorated, USP, 10,656 bots. of 100 gm. ethyl chloride, USP, 3,120 1-pt. bots. belladonna tincture, USP, 960 ¼-lb. bots. ethyl nitrite spirit, NF, inv. 204, Oct. 3, Armed Services Medical Procurement Agency, 84 Sands St., Bklyn. 1, N. Y.

Insecticide, 110,000 gals. spray, DDT, residual type, 5% DDT, export pack, East & West Coast, inv. 286, Oct. 8, 103,050 lbs. in 25-lb. pails DDT, tech., powder form, 100% DDT, export pack, East & West Coast, inv. 291, Oct. 15, Navy Puchasing Office, Navy Dept., Naval Supply Activities, N. Y., 3rd Ave. & 29th St., Bklyn. 32, N. Y.

Lactose, 6,550 lbs., tech., inv. 14, Oct. 11, N. Y. Chem. Procurement Dist., 180 Varick St., N. Y., N. Y.

Methyl alcohol, 4,180,000 gals., West Coast, inv. 293, Oct. 2, Contacting Office, Topeka AFB, Kans.

Paint, 570 gals. resist. syn. lacquer primer, 400 gals. syn. glossy enamel for metal and wood surfaces, 550 gals. sand obliterating lusterless lacquer, 1,000 qts. air drying syn. gloss enamel, etc., inv. 52, Oct. 5, Atlanta Gen. Depot, Purchasing Div., Atlanta, Ga.; 292 gals. various colors, cold water, semigloss inside paint, inv. 18, Oct. 15, Procurement Office, Grenier AFB, Manchester, N. H.; enamel, cleaner, lacquer, paint remover, turpentine, etc., 21 items, inv. 47, Oct. 4, Contracting Officer, Army Chemical Proc. Agency, Army Chemical Center, Md.; paint, packaged in 12-oz. self-spraying (aerosol) continental cans, or equal, as follows: 716 cans syn. red enamel, 1,849 cans syn. white enamel, 1,990 cans syn. blue enamel, 1,774 cans syn. olive green enamel, 1,442 cans primer, 2,341 cans black primer, inv. 1,787, Oct. 11, Post Office Dept., Chief of Procurement, Washington 25, D. C.; 1,850 gals. phenolic baking varnish with thinner for spray application, inv. 139, Oct. 15, Contracting Officer, Frankford Arsenal, Bridesburg, Phila. 37, Pa.; 455,400 lbs. cuprous oxide copper pigment, East & West Coast, inv. 872, Oct. 3, 1,200 gals. ready mixed, exterior oil paint, Ft. Chaffee, Ark., inv. 465, Oct. 16, 38,900 lbs. insoluble type, zinc chromate pigment, inv. 989, Oct. 15, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Pine oil, 3,300 gals., inv. DA-1302, Oct. 2, Gen. Services Adm., Region 7, Business Service Center, 1114 Commerce, Dallas, Tex.

Sodium carbonate, 124,500 lbs., anhyd., tech., inv. 10, Oct. 11, Contracting Officer, San Francisco Chem. Procurement Dist., 1515 Clay St., Oakland 12, Calif.

Sodium nitrate, 1,141 pkgs., inv. 15, Oct. 10, N. Y. Chem. Procurement Dist., 180 Varick St., N. Y., N. Y.

Sodium phosphate, 335,250 lbs., inv. 13, Oct. 8, N. Y. Chem. Procurement Dist., 180 Varick St., N. Y., N. Y.

Trichloroethylene, 600 55-gal. dms., tech., type II, inv. SCH-463-57 and 576-51, Oct. 15, Commanding Gen. (Procurement), Marine Corp. Supply Center, Albany, Ga.

Zinc stearate, 10,375 lbs., tech., East & West Coast, inv. 945, Oct. 16, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Hercules Powder

—Continued from page 3

and converting the proteins to their amino acids. The acids are then used to make a monosodium glutamate flavor enhancer, a food flavoring agent and a meat tenderizer.

Another major Huron product is gluten, the protein fraction of wheat, used to enrich breakfast cereals, bread and other bakery products.

Under the plans for the acquisition, Hercules would operate the Huron business as a division of its Virginia cellulose department.

Diamond to Expand in Chlorine-Caustic

—Continued from page 3

Hedrick Engineering Corporation, design contractors, Diamond engineers already have completed basic engineering for the project. Construction is expected to start soon.

Mr. Chrencik further pointed out that the proposed facilities will incorporate the latest developments and newest improvements in processing technology accumulated through the company's many years' specialized experience and research in producing chlorine and caustic soda.

"To represent what we consider a significant departure in design, engineering and production from heretofore conventional concepts, the planned facilities will assure production of the highest purity caustic soda, chlorine and hydrogen commercially available today," Mr. Chrencik explained.

"The basic equipment to be used for the electrolysis of salt brine," Mr. Chrencik also pointed out, "consists of mercury-type cells, which will be the largest of their kind in the world.

"Selection of this process for our Deer Park plant thus gives Diamond new production flexibility in the southwestern area, as we will use both the mercury cell and concentional diaphragm cell methods to produce chlorine and caustic soda here. The resulant improved efficiency and greater production balance thus achieved will enable our company to better meet industry's steadily broadening applications for chlorine and caustic soda," Mr. Chrencik stated.

"Raw materials and electric power needed for economically assembling these basic chemical building blocks' are readily available to Diamond at Deer Park for this expansion," Mr. Chrencik added.

As for their distribution, he said that "additional chlorine output resulting from this expansion program will be shipped to industrial users within a comparatively short radius, via pipeline and tank car for the most part, while caustic soda deliveries will be made economically over a larger area by rail and water routes, using tank cars and barges, respectively."

Convenience of South American export markets was cited as another favorable factor in this latest phase of Diamond's continuing growth in the Gulf Coast area. Completion of the new chlorine-caustic soda facilities in 1958, Mr. Chrencik stated, will "coincide with the tenth anniversary of our company's Deer Park plant, which has more than doubled in production capacity since it was first put on stream."

Earlier this year the company launched a program for doubling the plant's present perchlorethylene production capacity. This project is scheduled for completion in January.

Sterling Drug Appoints

Arthur W. Jensen, general sales manager of Winthrop Laboratories, New York, has been elected assistant secretary of Sterling Drug, Inc., the parent organization.

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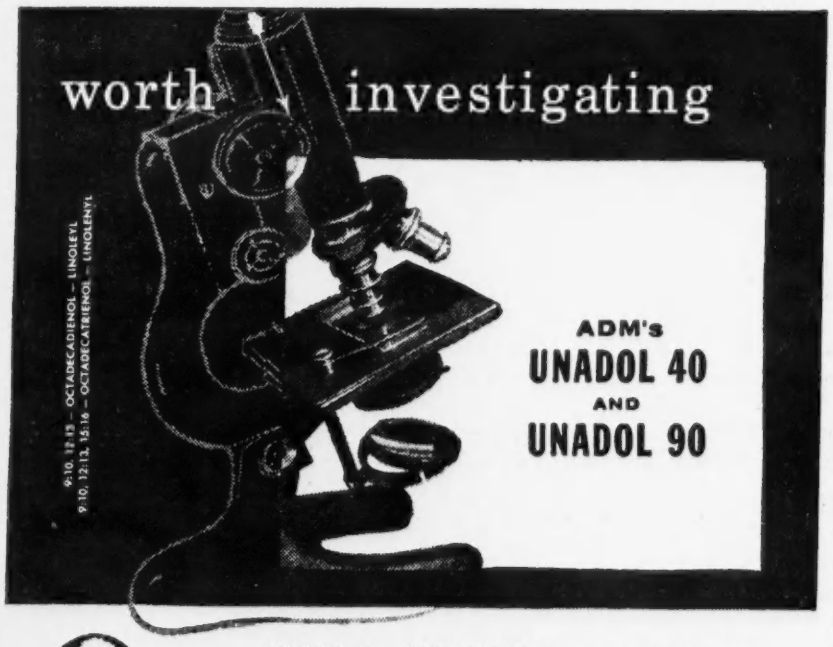

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Oils, Fats and Waxes

Firmer tone developed in edible oils due improved trading and quotations closed higher. Scarcity of peanut oil resulted in sales of crude at an advance of 1 cent per pound, with offers held at ½ cent higher. Soybean, cottonseed and corn oils advanced fractionally. Crude coconut oil sold at slightly lower levels, but closed firmer. Copra was easy, also lower. Lack of demand for olive oil weakened the spot market and quotations declined 20 cents per gallon.

Tallow and greases were easier and slightly lower. Trading was moderate at the decline, chiefly for domestic delivery. Offers were freer. Export interest continued limited. Lard was irregular and closed slightly lower.

There was no improvement in the slow demand for drying oils. Tung oil was inactive and quotations were shadable on firm bids. Oiticica oil also was quiet and more or less nominal. Linseed oil consumers continued to absorb sizable lots against former contracts, but showed little interest in additional commitments. This market, however, was steady at the current price schedule. Brazilian castor oil was firm and maintained at unchanged levels. Trading in crude menhaden oil was reported slow, though producers maintained asking prices, despite reduced export interest. Refined fish oils were in fair demand for small lots, while tankcar business continued inactive.

Cottonseed and soybean meals were stronger and advanced $1 to $2 per ton. Linseed meal was firmer for immediate delivery, while futures were easier.

PriceTrends

Advanced

Cocoa butter, ½c. per lb.
Cottonseed meal, $2 per ton.
Oil, corn, crude, ⅜c. per lb.
refd., ⅜c. per lb.
Cottonseed, crude, ¼c. per lb.
refd., ¼c. per lb.
Peanut, crude 1½c. per lb.
refd., 1½c. per lb.
Soybean, crude, ⅜c. per lb.
refd., ⅜c. per lb.
Soybean meal, $2.50 per ton.

Reduced

Greases, ¼c. per lb.
Lard, cash, ½c. per lb.
Linseed meal, $1 per ton.
Oil, Olive, 20c. per gal.
Tallow, ined., ¼c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Sept. 30, 1955
117.24	115.72	116.50	107.13

For Current Prices see Page 9

Vegetable Oils

Castor—Consuming demand was moderate, chiefly for prompt delivery. Domestic oil remained steady and unchanged. No. 1 Brazilian was firm, ranging from 18c. to 18¼c. per pound, tankcars, New York, prompt delivery, according to seller.

Coconut—Crude closed steadier and held at 10⅜c., tankcars, f.o.b. Pacific coast, prompt shipment. Trading was reported spotty. At New York market was offered at 12c., tankcars, prompt.

Corn—Crude was firmer and 12⅜c. asked following sales at 12¼c. per pound, tankcars, f.o.b. mills, prompt delivery. Refined was higher at 15.96c. per pound, tankcars, New York, prompt delivery.

Cottonseed Oil Futures

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended Friday, September 28, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Oct.	319	14.48	14.03	14.48@14.50
Dec.	311	14.73	14.32	14.72S
Mar.	225	15.10	14.66	15.10S
May	333	15.25	14.84	15.21@15.24
July	55	15.16	14.73	15.14S
Sept.	19	14.97	14.50	14.97S
Oct. (1957)	3	14.85	14.85	14.80@14.90
Dec. (1957)	1	14.48	14.48	14.60@14.70

Total sales and switches, 1,266 contracts.

Cottonseed—Active demand for nearby delivery resulted in a fractional advance in futures last week. Stronger soybeans was a contributing factor. Crude also was firmer and regained early slight declines. Interest in crude improved for export and sales took place at ⅛c. higher, with offerings limited. Trading in crude was reported at 12c. and bid for tankcars southeast and in the Valley. Waco was quoted at 12¼c. and Lubbock, 11⅞c., tankcars, f.o.b. mills. October tenders totaled 40 contracts and were promptly stopped. Firmer crude was reflected in refined salad oil and was held at 15½c. per pound, tankcars, New York, prompt delivery.

Refined cottonseed oil consumption in August was indicated at 1,785 tankcars, compared with 2,044 in July and 1,959, August last year. Visible supply was estimated at 5,649 tankcars at the end of August against 7,468 for the same time last year.

Linseed—Active demand continued for delivery against current contracts. New business was restricted to fill-in needs. Raw oil was held at 12.7c. per pound, tankcars, Minneapolis, October forward delivery.

Flaxseed — Trading was more active. Prices were unchanged and steady.

Minneapolis.—Offerings increased in the cash flaxseed market as harvesting operations stepped up. About half the North Dakota crop remained to be harvested. Increase in producer offerings was not as great as anticipated, but crushers were able to obtain ample supplies for operations without raising bids. Quotations held at $3.25 a bushel, spot and to-arrive, basis Minneapolis. Storage space remained the dominating factor as to whether sufficient flaxseed would be available at current levels, marked tendency being to hold for loans unless bids are raised substantially. Earlier concern over frost damage was largely discounted as later reports indicated slight, if any, damage. Offerings in the spot cash market totaled 113 cars and 5,000 bushels in odd-lots. To-arrive bookings were up to 152 cars and 150,800 bushels in trucks. Arrivals of flaxseed for all accounts were 661 cars, against 828 cars a year ago. Shipments totaled 93 cars, compared with 34 cars last year.

Receipts and shipments of flaxseed, in bushels, were as follows:

	Receipts 1956-57	Receipts 1955-56	Shipments 1956-57
Past week	1,189,800	1,449,000	167,400
Since Sept. 1	4,603,400	6,749,750	572,400

Oiticica—Buying interest was light and spotty. Tankcars were quoted at 14¼c. to 14½c. per pound, tankcars, New York, prompt delivery, as to seller. Drums were unchanged at 15⅝c. to 16¼c. per pound, spot depending upon quantity.

Olive—Lack of buying interest affected the spot situation and quotations declined 20c. per gallon. Spanish oil ranged from $3.25 to $3.35 per gallon, drums, spot duty paid, depending upon quality and quantity.

Palm—Trading was confined to small lots. Drums were quoted at 15c. to 16c. per pound, spot and to quantity and 12.2c. for tankcars.

Peanut—Reduced stocks stiffened this market and prices advanced sharply. Sales of crude were reported up to 14½c. per pound, tankcars, f.o.b. mills, with 15c. asked. Refined oil was lifted to 18⅝c. per pound, tankcars, New York, prompt delivery.

Rapeseed — Stocks for nearby delivery were scarce and nominal at 22c. per pound, tankcar basis. New crop was quoted at 18c. per pound, tankcars, November-December delivery.

Soybean — Improved export business

Cottonseed Crush: August

Cottonseed received and crushed and production of cottonseed products during August and July, as compiled by Bureau of Census, follows:—

Cottonseed

	August	July
	—Tons—	
Receipts	364,799	141,965
Crushed	181,552	118,511
Stocks	360,716	177,469

Crude Oil

	—Pounds—	
Produced	58,108,000	43,472,000
Stocks	22,927,000	15,195,000

Cake and Meal

	—Tons—	
Produced	85,222	63,286
Stocks	120,288	164,187

Hulls

	—Tons—	
Produced	40,785	28,643
Stocks	55,123	77,164

Oils, Fats and Waxes

strengthened the market and quotations closed fractionally higher. Crude was sold 11⅝c. per pound, tankcars, Decatur, October-December and bid for all positions. Refined salad also was higher at 14⅜c. per pound, tankcars, New York, prompt delivery.

Crude soybean oil consumption in August totaled 2,900 tankcars, against 3,883 July and 3,758, August last year. Consumption for 11 months (October through August) totaled 46,341 tankcars, compared with 41,085 for the same period last year. Visible supply was estimated at 6,391 tankcars at end of August against 3,189 for the same time last year.

Soybean Oil Futures

Sales and prices of crude soybean oil futures (new contract) in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, September 28, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Oct.	8	11.45	11.28	11.45@11.53
Dec.	5	11.50	11.42	11.55@11.64
May	6	11.80	11.80	11.68@11.77

Total sales 19 contracts.

Tung — Buying interest continued to lag and market was unsettled. Tankcars were quoted nominally at 23c. to 23¼c. per pound, tankcars, New York, prompt delivery. Drums was available at 23¾c. to 24¼c. per pound, spot as to quantity.

Miscellaneous

Castor Beans—Shipments were steady and quoted nominally at $155 to $156 per ton, f.o.b. Brazilian ports.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds	
	Beans	Oils
Last week	96.660	1.632.000
Previous week	863.900	600.000
Corresponding week, 1955	1.000.350	422.000
Total this year	35.046.660	59.099.000
Corresponding period, 1955	62.000.210	61.370.000

Cocoa Butter—This market was firmer and ranged from 48½c. to 51c. per pound, spot, according to quantity.

Copra — Trading was reported light. Prompt shipment was quoted at $150 per ton, c.i.f. Pacific coast.

Fats and Greases

Greases—Light sales were reported for prompt delivery. Market was easier and lower. Export interest was limited. Yellow grease ranged from 6⅝c. to 6¾c. per pound, tankcars, delivered, as to quantity, with bids ⅛c. less. Choice white all hog was quoted at 0.7⅞c.-8c., same basis.

The expected number of sows to farrow in the fall of 1956 (June 1-December 1) for 9 corn belt states is 8 percent smaller than in 1955, according to the Crop Reporting Board. The number is now estimated at 3,490,000 head for the 9 states. This compares with 3,781,000 sows farrowed in the same period of 1955 and accounted for 68 percent of the United States fall pig crop in 1955.

Lard—This market was irregular and cash lard declined to 11.40c. per lb., dms. Chicago.

Oleo Oil—This market remained steady. Offers were light. Extra was quoted at 18¼c. to 18¾c. per pound, drums, as to quantity and seller. Oleo stearine was firmly held at 12c. to 12½c., same basis.

Tallow—This market was easy and lower. Bleachable fancy was sold at 0.7½c. per pound, tankcars, delivered. Extra was quoted at 7¼c.; special, 6⅞c. and No. 1, 6¾c., same basis. Export business was reported light. Guaranteed fancy was quoted at 9c. to 9⅛c. per pound, drums, f.a.s.

Tallow Futures

Sales and prices of bleachable tallow futures in tankcars (60,000 pounds) on the New York Produce Exchange for the week ended Friday, September 28, follow:—

	Sales	High	Low	Close
		—Cents per pound—		
Oct.	2	7.62	7.40	7.35@7.50
Dec.	6	7.60	7.53	7.45@7.55

Total sales, 8 contracts.

Fish Oils

Menhaden—This market was dull and featureless. Export interest continued inactive and the market remained nominal at 8¾c. per pound, tankcars, works. Fishing was light to poor due to the hurricane.

Soybean Crush: August

Soybeans received and crushed and production of soybean oil and meal during August and July, as compiled by the Bureau of Census, follows:—

Soybeans

	August	July
	—Tons—	
Receipts	230,781	305,818
Crushed	653,796	611,338
Stocks	370,790	793,805

Crude Oil

	—Pounds—	
Produced	249,027,000	228,348,000
Stocks	87,281,000	98,575,000

Cake and Meal

	—Tons—	
Produced	513,028	475,294
Stocks	145,788	182,658

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Oils, Fats and Waxes

Light pressed oil was quiet and offered at 12c. per pound, tankcars, New York basis and shadable.

Production of crude menhaden oil totaled 4,027,613 gallons in July against 4,299,148 gallons, July last year. Output for the 7 months ending July was indicated at 10,758,325 gallons, compared with 10,846,226 gallons for the same time last year.

Cake and Meal

Cottonseed Meal — Good demand coupled with some export business strengthened this market. Heavy rains have delayed harvesting, and mills restricted offerings. Forty-one percent was quoted at $55 per ton sacked, Memphis; $56, Alabama; $57, Georgia and South Carolina points for October-November shipment.

Linseed Meal—Offers for forward delivery were freer and trading took place at slight decline.

Minneapolis. — Fair demand prevailed for nearby offerings of linseed meal, but supplies were more plentiful as crushers moved into capacity operations on new crop flaxseed, and prices declined 50c. There was little interest in deferred deliveries. Quotations were at $52 to $52.50 a ton on 36 percent protein, extracted meal, bulk, in carlots, f.o.b., Minneapolis, for October-December shipment, immediate shipment commanding a 50c. premium. Expeller meal, 32 percent protein, held at $61.50 for November-March. Users continued to draw heavily against existing contracts.

Shipments of linseed meal, in pounds, were as follows:

	1956-57	1955-56
Past week	10,320,000	15,480,000
Since Sept. 1	44,460,000	71,640,000

Soybean Meal—Demand continued good for near-by shipment and prices were higher. The heavy movement of soybeans has not yet begun but many private sources believe that the market has been discounted. Forty-four percent meal was quoted at $47 per ton, bulk, Decatur, October, November, December, and $49 January-September. Mississippi Valley production was offered in limited quantities at $50 f.o.b. shipping points, October, November, December.

Waxes

Consumer demand for most waxes continued confined to actual needs. Scarcity of offers of crude beeswax from all primary sources kept this market strong. Refined grades were firm at the recent advance. Carnauba grades were in fair request, chiefly for prompt delivery. Prices for spot stocks were unchanged and ranged from 1c. to 2c. per pound below the cost of replacements. Offers from Brazil was firmly maintained at prevailing floor prices. Yellow grades continued strong and scarce, on spot and reflected the clearance of distressed material from the market. Candelilla and Japan waxes remained unchanged and steady.

Fatty Acid August Output A Third Better Than July

Production of fatty acids in August was 35 million pounds, approximately 12.1 million pounds more than the previous month's total of 22.9 million pounds, according to the Association of American Soap and Glycerine Producers. This figure, however, was some 2.5 million pounds below the August, 1955, figure of 37.5 million pounds.

Total disposition was 34.7 million pounds, some 7 million pounds above the previous month, but about 5 million pounds below August, 1955. Stocks, including work-in-process, totalled 48.3 million pounds, about 0.4 million pounds below the July level.

India Hopes

—Continued from page 4

material end in the chemical field," Dr. S. M. Shah, production manager of Polychem, Ltd., said. "We are doing this in the plastics and dye industries and in rayon. We now import rayon grade pulp and make rayon out of it. Later on we hope to make rayon grade pulp itself."

In discussing the polystyrene plant now under construction by Polychem in Bombay Dr. Shah said . . . "When we go on steam next year we will be making one important step in our country's overall program to develop a full-fledged plastics industry.

"From polystyrene production we want to gain enough experience so that eventually the raw materials can also be produced in India. Then we will have reached our goal in making one group of finished produc's."

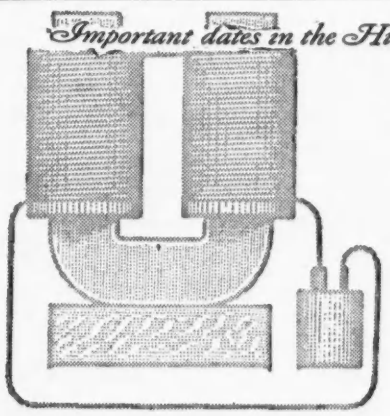
Dr. Shah explained that the most important item for India's industrial economy at the moment is the price of raw materials. He also said that if private capi'al is not available to finance the industrial development targets in the fifteen-year program, the Indian government is more than ready to contribute to the cause of industrialization.

Dr. Shah and his associa'e, C I Almaula, laboratory director of the new Polychem plant, have been visiting the United States for four months. Most of their time has been spent in Midland at Dow.

Their visit follows announcement late last year that Dow and Kilachand, Devchand & Co., Ltd., of India had formed Polychem, Ltd., a company which will engage in the manufacture of "Styron," Dow's polystyrene plastic, for Indian molders. Fifty percent of the new company's common stock has been purchased by the Indian public while Dow and Kilachand, Devchand & Co. each share i's remaining stock.

The new polystyrene plant in Bombay currently under construction will be the first polystyrene unit in south and southwest Asia and will have a capacity of 500,000 pounds per month. It is expec'ed that this will give new impetus to the plastics molding industry in India for products such as housewares wall tile, toys and many industrial moldings.

Important dates in the History of Industrial Progress



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Vacuum Chamber Dryers

Devine No. 23; Double Door; 59" x 78"; 13 shelves; 356 sq ft. with Condenser, Receiver, Vacuum Pump, etc.
F. J. Stokes No. 128 B; 24" x 24", complete with Receiver, Pump, etc.

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International 8' x 8' Porcelain Lnd. Pebble Mills 50 HP.

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Horizontal Steel Lithcoted Tank; 3,500 Gal. 6' x 15'6".
Stainless Hor. Oval Tank (Milk Truck Type) 3,500 Gal. 21' long.
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Evaporators

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Mojonnier Stainless Steel Vacuum Pan; 3' x 10'.

Heavy Duty Mixers

Baker Perkins, Size 18; 300 gal. working capacity; Hydr. Tilt.
Baker Perkins, Size 17, 200 gal. working capacity; Power Tilt.
W. & P. Type, Size 15; 100 gal. working capacity; Screw Tilt.
Baker Perkins, Type 316 S/S Cascade Mixer; 625 gal. Charge; Cont.
W. & P. Type Lab., Size 6½" x 8¼" x 5¼"; double Sigma Arms.

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600 ton Hydraulic Press: 22 Heated Platens, 26" x 38".
(2) 300 ton Presses; 11 Heated Platens, 40" x 40".
35 ton Hydraulic Press; Heated Platens, 15" x 15".
Dennison 4 ton Hydraulic Press; Thermo controls.
French Oil Curb-Cage Press; 450 ton; 24" x 36".

Reactors

Heavy Duty Steel Reactor; 600 gal. 5' x 6'; Steam Jacketed; anchor agitator.
Pfaudler Glass Lined; Jkdt. Agitated up to 1,000 gal.
Blaw Knox Stainless; Jktd./Agtd.; 8' x 7'6".
Stainless 5,000 Gal. 10' x 9'6"; agitated 40 HP.

Filter Presses

Shriver 24" in Stainless; 21 chambers; 4 eye.
Shriver 36" Steam Jacketed; C. I. 29 chambers.
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1—1,650,000 gallon steel storage tank 100' dia. x 28'2" high.
1—Struthers-Wells 4'6" dia. x 16' high, 316 S.S. single effect Evaporator 375 sq. ft. Calandria.
1—Tolhurst 48" Suspended type Centrifugal, rubber covered, perforated basket, bottom discharge, 15/3.75 HP, 720/360 rpm XP motor.
1—Tolhurst 40" Suspended type Centrifugal, rubber covered, perforated basket, bottom discharge, 15/7½ HP, 1200/600 rpm motor.
2—Bird 18" x 28" solid bowl, Continuous Centrifuges 316 S.S. with 15 HP motors.
2—Sperry 30" x 30" P&F Filter Presses, Heresite coated, closed delivery, 30 chambers with hydraulic closures.
3—Durimet 2" Centrifugal Pumps 5 HP motors.
1—Chlorimet 3" x 2" Centrifugal Pump 10 HP motor.
5—Olivite 2" Centrifugal Pumps, 5 HP motors.
12—Duriron 2" and 3" Centrifugal Pumps with 5, 7½, and 10 HP motors.
1—Duriron 5" x 4" Centrifugal Pump with 10 HP motor.

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3—Link Belt Roto-Louvre Dryers 11' x 6" x 36', 7'5" x 20', 5'2" x 20'.
3—Hersey 4' x 30', 3' x 20', 18" x 12', 304 S.S. Rotary Dryers.
2—Baker Perkins 100 and 50 gal. 316 S.S. double arm Mixers.
1—Baker Perkins 150 gal. double arm, jacketed, double arm Mixer.
2—Robinson 304 S.S. jacketed Powder Mixers 4' x 7'6".
3—Mikro Pulverizers #2TH, #1SH, Bantam.
9—Jeffrey Hammermills 24" x 20", 20" x 12", 15" x 18" NEW.
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1—Bird 24" x 38", 304 S.S. Continuous, Solid Bowl Centrifuge.
2—Bird 40" Suspended type Centrifugals 347 S.S., perforated baskets, TEFC motors.
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1—10,000 gal. Aluminum Tank 10' dia. x 16' long, ½" shell, 25# W.P.
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1—Niagara #230-32 Pressure Filter, 230 sq.ft., 304 S.S.
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2—Pfaudler 30 gal. G. L. Reactors.

1—1420 gal. Stainless Steel Jktd. Catalyst Kettles, 4' dia. x 15' deep, 200# WP, 85# jkt. pr.

6—465 gal. Stainless Steel Jktd. Catalyst Kettles, 3' dia. x 8'6" deep, 150# WP, 165# jkt. pr.

2—200 gal. St. St. Jktd. Kettles.

2—Bartlett Snow 6' dia. x 3' deep Jacketed and Agitated Stainless Steel Crystallizing Kettles, with gearshift drives and 25 HP motors.

4—Aluminum Reaction Kettles, Jktd. & Agit., 35 to 250 gal.

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5' dia. x 22' long Ball Tube Mill, steel shell, 1¼" thick manganese steel lining, 200 HP 3 60 2300 motor and starter. Built 1952 by Patterson Fdry. & Mach. Co.—UNUSED.

1—Allis Chalmers 6' D x 16' L Steel Lined Contin. Ball Mill Granulator.

1—Hardinge 6' D x 22" L Conical Ball Mill, Steel liner.

2—Fitz. Comminutors, St. St., F-8 & K.

3—Mikro Pulv. #2-DH; #2-TH; 3-TH.

1—Sturtevant 8x10 Jaw Crusher.

1—Jeffrey 42 x 36 Hammer Mill.

1—Penna. Ring Type Granulator, Trojan K3-24, 40 HP.

4—Pebble Mills: 36" x 48"; 72" x 96".

2—4'6" D x 12' L contin. Pebble Mills.

2—Three Roll Ink Mills: Ross 9"x24", Day 16"x40".

1—St St. Pug Mill, two 7" dia. x 39" L overlapping chambers, jacketed.

MIXERS—BLENDERS

1—Gemco Stainless Steel Cone Blender, 54" dia., 28 cu. ft. work. cap., steam jktd.

1—Patterson Steel Cone Blender, 5' dia., 40 cu. ft. work. cap.

2—Day 75 gal. Stainless Steel Double Arm Sigma Blade Jacketed Mixers.

2—Readco Heavy Duty Double Arm Sigma Blade Jacketed Mixers, 50 gal. work. cap., 30 HP Expl. Pr. Motor. Built 1951-53.

2—W&P Sigma Blade Double Arm Jacketed Mixers, 50 gal. & 100 gal. work. cap.

3—Sprout Waldron Ribbon Mixers, 336 cu. ft. (12,000 lbs.) work. cap.

2—Lancaster type SGK counter current mixers.

7—Side Entering Stainless Steel Mixers, 10 HP to 25 HP.

3—Falk Vert. Agitator Drives #10-GDX, 10:1, 300 HP—UNUSED.

10—Turbo vert. drives #5B, 5:1, 40 HP.

PRESSES

2—Stokes Rotary Tablet Presses, Models D-4 and DD-2.

2—Kux Rotary Tablet Presses, Model 25, 21 and 25 punch.

2—Davenport Dewatering Presses, Size 2A.

TANKS

10—4,600 gal. Brewery Glass Lined Welded Steel Tanks.

75—Welded Steel Tanks, dished heads, up to 23,000 gal. cap.—Horiz. and Vert.

10—St. St. Pressure Tanks—to 4000 gal.

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16—Aluminum, 500 gal., 80# WP.

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6—All Stainless Tubular Condensers, 30, 60, 85, 155, 195 and 200 sq. ft.
2—Pfaudler 200 and 100 gal. glass lined, jacketed, agitated Reactors.
2—Pfaudler 2500 gal. glass lined, closed Tanks with S.S. coils.
1—Pfaudler 1000 gal. glass lined, agitated Tank.
21—Graver 500 gal. Steel, jacketed Tanks.
1—Stacy 2700 gal. Steel Tank with 7½ HP agitator.
5—Welded, Closed, Steel Tanks 10,000 and 20,000 gal. with flame arrestors.

CENTRIFUGES & FILTERS

11—Podbielniak, Model 6900 and 6080 S.S. Extractors, XP motors.
1—Bird 40" Suspended Centrifugal, bottom discharged with 30/7½ HP.
1—Bird-Young 4' x 2' steel Rotary Vacuum Filter with copper screening.
1—Republic 15" x 15" S.S. "Flexo-Master" Filter Press 20 chambers.
1—Sparkler 18-D-12 Rubber Filters.

DRYERS

2—Kathabar Dehumidifying Units, Models 500 BLT and 250B.
5—Stokes Vacuum Shelf Dryers having 8—44" x 40' shelves.
5—National Research Vac. Diffusion Units, Model V-10-D.

FILLING, PACKAGING & MATERIALS HANDLING

1—Perfektum Vial Washer, Model W78, for 10 and 20 cc vials.
1—Perfektum Vial Washer, 8 stage Model W20.
1—Popper & Klein Bottle Washer, Model W57 for 10 and 20 cc vials.
1—Popper & Klein Bottle Washer, Rotary for 1, 2, 5 & 50 cc vials.
1—American Cascade Washer, Model 2020 S.N. 248M-24468.
2—Precision Freas Sterilizer Ovens, S.N. 848-61, 848-62, Model 848, 220 V, 3 HP, 60 cy., truck tray type.
1—Horizontal Unscrambler, S.S., S.N. 104 Model CF-36.
1—R. A. Jones Cartoning Machine, S.N. S-555 for 10 & 20 cc vials, with circular folder, printing attachment, speed 150 cartons per minute.
1—R. A. Jones Cartoner, S. N. S-662, 20 cc vials, constant motion, with circular folder printing attachment, speed 130 cartons per min.
1—Alvy Ferguson Belt Conveyor 40' long with 8" canvas belt and complete with drive and motor.

COMPRESSORS & PUMPS

8—Ingersoll Rand Air Compressors, 480 to 1500 cfm with motors.
10—York Ammonia Compressors, Model D-8, 10" x 7½", 8" x 6", 6" x 6", 5" x 5" and 4" x 4" with motors and accessories.
6—Kinney Vacuum Pumps, 100 and 200 cfm.
77—Ingersoll Rand, Peerless, Dayton-Dowd and Worthington Stainless Bronze and Steel Centrifugal Pumps 1/3 to 20 HP.

MISCELLANEOUS

150-Ph Recording & Control Instruments, Rotometers, etc.

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4—Stokes Model "R" Tablet Machines, variable drive w/3 H.P. motor.

2—#12 Sweetland Filters, 36 monel leaves on 4" centers.
2—Devine #28 Dbl. Dr. Vacuum Shelf Dryers.

1—Day 14" x 30" Type B—H. S. Roller Mill.

5—Day & Ross 15 to 50 gal. Pony Mixers.
2—Day Gearless Pony Mixers, 50 & 80 gals.
2—Fletcher 48" S.S. Extractors.

4—Day Spiral Mixers, 600 & 1000# cap.

2—Patterson 4' x 5' & 5' x 6' Pebble Mills.
1—W & P Mixer 100 gal. Jacketed, Double Arm.

1—Day Stainless Steel Double Arm, Sigma Blade Mixer, 350 gals.

6—Surface Condensers-Receivers, 50 to 150 sq ft.
3—Rotex Sifters, 20" x 48" to 40" x 84", single and double deck.
1—American Horizontal Autoclave, 4' x 4'—6" x 8' deep.
1—Buflovak Vac. Impregnator, 24" x 36".
1—Blaw-Knox 110 gal. Jack. & Ag. Autoclave, 2000 psi.
1—Keeler 350 H.P. type CP Boiler.
1—Buflovak 6' dia. Vac-Crystallizer.
1—Inconel Heat Exch., 195 sq. ft.
1—Allbright Nell 4' x 9' Double Drum Dryer.
6—Shriver Filter Press Skeletons, 30"—Gear Closure.

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Stokes 2'x6' Rotary Vac. Dryer.
1—Allbr. Nell 4x9 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20".

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4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301.

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#2 Sweetland Filter 12 Stainless covered leaves
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
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Pfaudler 250 gal. Glass Lined Jack. Kettle.
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2—Impreg. Units 30" & 36" dia. complete.
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1—250 gal. Lead lined Kettle.
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2—Mikro Pulverizers #2TH & #2SI.
Pebble Mills 24"x30", 30"x30", 30"x34", 30"x42", 4'x5'. Also jar mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Sturtevant #00 Swing Sledge Mill, 3 HP.
Schutz-O'Neill #1 & 20" Pulverizers.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll Crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Houchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

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Lancaster 6' dia. Vert. Mixer 25 HP.
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Day Brighton 20 gal. Change Can Mixers.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer, 3 speed.
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1—Link belt roto louvre dryer, model #502-20.

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1—Bird continuous centrifugal steel filter, 24" x 38".

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2—Sparker type 316 stainless steel filters, model 18D6.

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1—Republic 15" x 15" stainless steel filter, 15 chambers.

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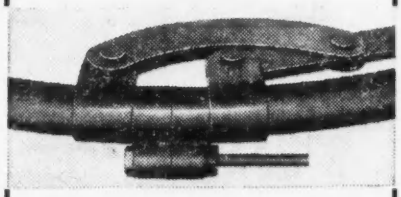

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6—Premier, Eppenbach, Charlotte stainless colloid mills.

2—Sweetland #11 stainless fillers hydraulic closing.

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For Sale 93 sq. ft. S.S. T304 Heat Exchanger ASME; 110 gal. Robinson S.S. Unique Semi-Mass Mixer jacketed ASME; 75 gal. S.S. jacketed Day Double Sigma Blade Mixers; 40" suspended Tolhurst Centrifuge with steel perforated basket; 750 gal. S.S. T304 sanitary Tanks; 24"x36" Double Drum Dryer; 64"x13 plate Chrome Iron Column. Best Equipment Company, 617 Davis Street, Evanston, Illinois. DAvis 8-0926.

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Surfactant Use

—Continued from page 5

local government units. In addition, all exports are not included.

"A third volume of use not included," it is added, "are the many applications requiring less than 100,000 pounds per year. Although each of these is relatively small, there are so many such applications that the total volume is undoubtedly several million pounds per year."

Also contributing to the discrepancy, the American Alcolac men believe, are nitrogen-containing, non-sulfonated acyclic surface active agents. These materials are used primarily in corrosion inhibitors.

20—Powder Hoppers, 304 Stainless Steel ⅛" thick. GEMCO Dust Tite 304 Stainless Steel Valve, on 5" Castors. Approximate Capacity 40 cu. ft. or 300 Gallon. Unused
1—#1A Devine Vacuum Shelf Dryer, 3 Heating Shelves 23½" x 29" Spaced 11" Apart. 18 sq. ft. Pan Surface. Unused
1—U. S. Bottle Rinser, Serial #71046, 4 Sets of Stainless Steel Aprons, Rinse 50 Bottles one (1) Ounce to sixteen (16) Ounces, or ten (10) one Gallon Bottles. Unused
6—Podbielniak 316 Stainless Steel Solvent Extractors. Serial #6070 and Serial #6080. Used
1—Hudson-Bay Model SF-40, 40 Spindle Shell Freezing Unit with Dual, 2 Stage Refrigeration System. Used

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Universal Oil Sale Urged by O'Connor

—Continued from page 7

the trust. The net income flowing to the trust fund from UOP is turned over to the society for use in carrying out this program.

Dr. Connor's statement, which was in the form of a report of the ACS board to the society's council, pointed out that the Guaranty Trust Company has filed, in the Supreme Court of New York, a petition requesting court authorization to sell any or all UOP securities now held by the fund. The case is pending.

The ACS board is supporting the trustee's petition in the belief that sale of UOP "will result in a far greater and more stable income for the carrying out of the objectives of the trust," Dr. Connor explained. These objectives are "to provide for advanced scientific education and research in the petroleum field."

Regardless of the outcome of the court action, however, the financial standing of UOP has improved so greatly in recent years, he said, that in his opinion the ACS board now has sufficient funds on hand to begin a moderate expansion in the field of fundamental research, to undertake certain new activities such as grants for advanced scientific education, and to commit funds for longer than a single year—the present limit.

Can Make Modifications Now

"These modifications can, I believe, be made now without any assumption about the outcome of the current court proceedings," Dr Connor said "If, however, as we hope, the outcome of these proceedings results in a greater return to the Petroleum Research Fund, we can plan still further extensions of our scientific and educational activities in this field"

Up to now, Dr. Connor continued, the ACS in its administration of the program has always been handicapped by a lack of information as to what it would receive from the trustee. While the ACS board has every confidence in the present soundness of Universal as a going concern, he observed, "it also realizes that so long as Universal must be self-financing for all its own corporate purposes—the fundamental objectives of the trust will understandably get consideration moneywise only after Universal's needs are first taken care of by its board of directors."

"Unless and until Universal is freed from its present restrictions," Dr. Connor said, "there will continue to be a conflict of interest between the desired advanced scientific education and fundamental research provided for in the trust agreement and the corporate necessities of Universal.

'More Stable Income'

"It is to resolve that conflict that the trustee applied to the court of authority to sell Universal. The sale, if approved, in the trustee's opinion as expressed to the court, will result in a far greater and a more stable income for the carrying out of the objectives of the trust. Both the ACS and the Attorney General of New York have informed the court of their concurrence in this viewpoint."

The Petroleum Research Fund was created in October, 1944, by the gift of all the stock, securities and other evidences of interest in UOP then held by Shell Oil Company; Standard Oil Company of California; Standard Oil Company (Indiana); Standard Oil Company (New Jersey); Texas Company, and N. V. de Bataafsche Petroleum Maatschappij (Royal Dutch Shell) to the Guaranty Trust Company as trustee, in accordance with an agreement between these petroleum companies and Guaranty.

The American Chemical Society was designated to receive the net income of the trust fund and to use it for the specified purposes of the trust. Shortly afterward, Phillips Petroleum Company, which had not participated in the original agreement, contributed its interest in UOP to the ACS for transfer to the trust.

Since that time, Dr. Connor said, Guaranty Trust has been sole owner of UOP's capital stock and has had full responsibility for the selection of directors who, in turn, have directed the policies of the company. Not only does the American Chemical Society have no direct or indirect ownership interest in UOP, but it has nothing to do with the management or policies of the company.

SOCMA Meets Oct. 9

The Synthetic Organic Chemical Manufacturers Association will hold its October luncheon meeting at the Roosevelt hotel, New York, October 9. Dr. John C. Warner, president of Carnegie Institute of Technology, will speak on "Our Country's Most Paying Investment."

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Copper Goal

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quarter of 1956 declined sharply, the report states. This was attributed in part to a decrease in automobile production and residential construction. Durable goods manufacturers having higher than usual inventories also slackened purchases of brass mill products during the second quarter.

The BDSA copper division, which prepares the copper industry report, anticipates that increased production of automobiles in the fourth quarter will bring a corresponding increase in demand for both brass and wire mill products. On this basis, the division sees the fourth quarter refined copper demand as likely to be strong and slightly in excess of the available supply.

The cooper industry report calls to the attention of the industry an impending survey of production capabilities of the copper wire mills for operations such as drawing, stranding, cabling, insulating, and armoring, to obtain information essential to the mobilization base program.

Butadiene Plant

—Continued from page 3

terest in the matter is narrowed by law to the question of effect on the antitrust laws, it was explained. Also, the law provides that the plant may be leased for purposes other than the production of butadiene.

Another factor not mentioned in the announcement is that a lease of the rubber plant does not have to be submitted to congress for approval as was the case of sale of a rubber plant.

The plant produces butadiene from ethyl alcohol and has an annual capacity of 87,000 short tons. Upon receipt of proposals for leasing the plant, Federal Facilities Corporation will enter into negotiations for a period of not less than thirty days from October 31 with those submitting proposals. The date of termination of such negotiations will be determined by the corporation and announced to all eligible bidders.

Nat'l Chemical Buys Periseal

National Chemical & Manufacturing Company, Chicago, has purchased Periseal Company, formerly of New York City. The company will be operated as a division of National Chemical and the products will be marketed nationally under the Periseal label.

Jobs & People

Bakelite Company, New York, a division of Union Carbide & Carbon Corporation — **Donald E. Bisgrove** has been shifted from Boston to the Clifton, N. J., sales district of Bakelite's calendering materials division. Mr. Bisgrove has been succeeded in Boston by **Frederick A. Riehl.**

Dewey & Almy Chemical Company, Cambridge, Mass., a division of W. R. Grace & Co. — **Woodrow Crank** has been made western division sales representative for division.

Dow Chemical Company, Midland, Mich.—**Duane C. Neuchterlein** has been transferred by Dow from the market research staff to the fine chemicals section of organic chemicals sales.

Emery Industries, Inc., Cincinnati, Ohio—**Tom W. Macy, jr.,** has been named fatty acid sales representative by Emery in the New England territory.

General Aniline & Film Corporation, New York—**John R. Barrett** has resigned as legal assistant to Chief Judge Albert Conway of New York State's Court of Appeals to join GAF's legal department.

Hooker Electrochemical Company, Niagara Falls, N. Y.—**Walter S. Beanblossom** has been appointed administrative assistant to the Hooker management.

Magnus, Mabee & Reynard, Inc., New York—**George H. McGlynn,** vice-president and treasurer of MM&R, was guest of honor at a luncheon in New York last week on his sixtieth birthday.

Olin Mathieson Chemical Corporation, New York—**Edward T. Hanna,** field sales representative of Olin's industrial chemicals division, has been transferred from Philadelphia to the company's sales office in Cincinnati, Ohio. **John U. Walker** has been named to succeed Mr. Hanna in Philadelphia.

Pennsylvania Salt Manufacturing Company, Philadelphia—**C. Brooks Ricca** has been named Philadelphia sales manager for Pennsalt metal processing products.

Pittsburgh Coke & Chemical Company, Pittsburgh, Pa.—**Autrey Z. Partain** has been appointed a sales - service representative for Pittsburgh Coke's protective coatings division, with headquarters in Tulsa, Okla.

Shawinigan Resins Corporation, Springfield, Mass.—**Dr. Jerry Koral** and **Joseph G. Martirs** have joined the Shawinigan Resins research department.

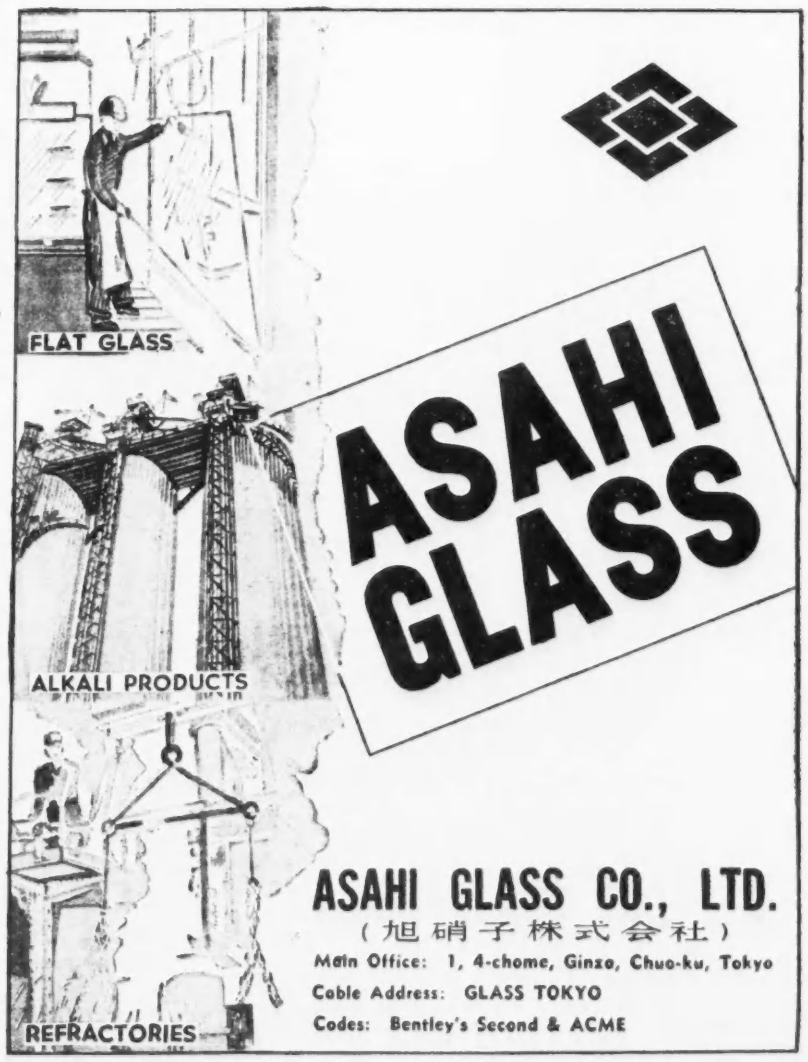
Shell Development Company, Emeryville, Calif.—**Willem L. J. De Nie** has been named assistant manager of Shell Development's licensing division.

Stauffer Chemical Company, New York—**James V. Kerrigan** and **Lothar E. Geipel** have joined Stauffer's Richmond, Calif., research laboratory as research chemists. **Gregory Schultz** has joined the firm's Niagara Falls, N. Y., plant as an industrial engineer, while **Don C. Force** has joined Stauffer's agricultural laboratory at Mountainview, Calif., as an entomologist.

Stein, Hall & Co., New York—**James A. Breed** has joined the Stein, Hall adhesives department.

U.S. Industrial Chemicals Company, New York, a division of National Distillers Products Corporation — **Tom E. Martin** has been named a field service engineer for USI's chemical sales department.

Westwood Chemical Company, New York—**Jacques J. Whitfield,** formerly in charge of the stearate division of Nuodex Chemical Company and Sun Chemical Corporation, has joined Westwood Chemical.



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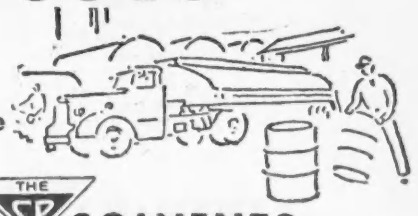

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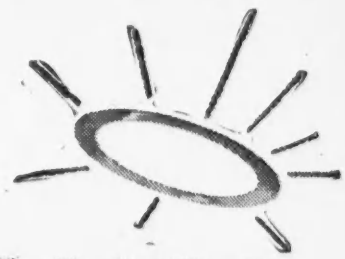

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